ENGINEERING NEWS-RECORD

Block-and-tackle methods, plus brawn, build wooden barges to relieve transport shortage

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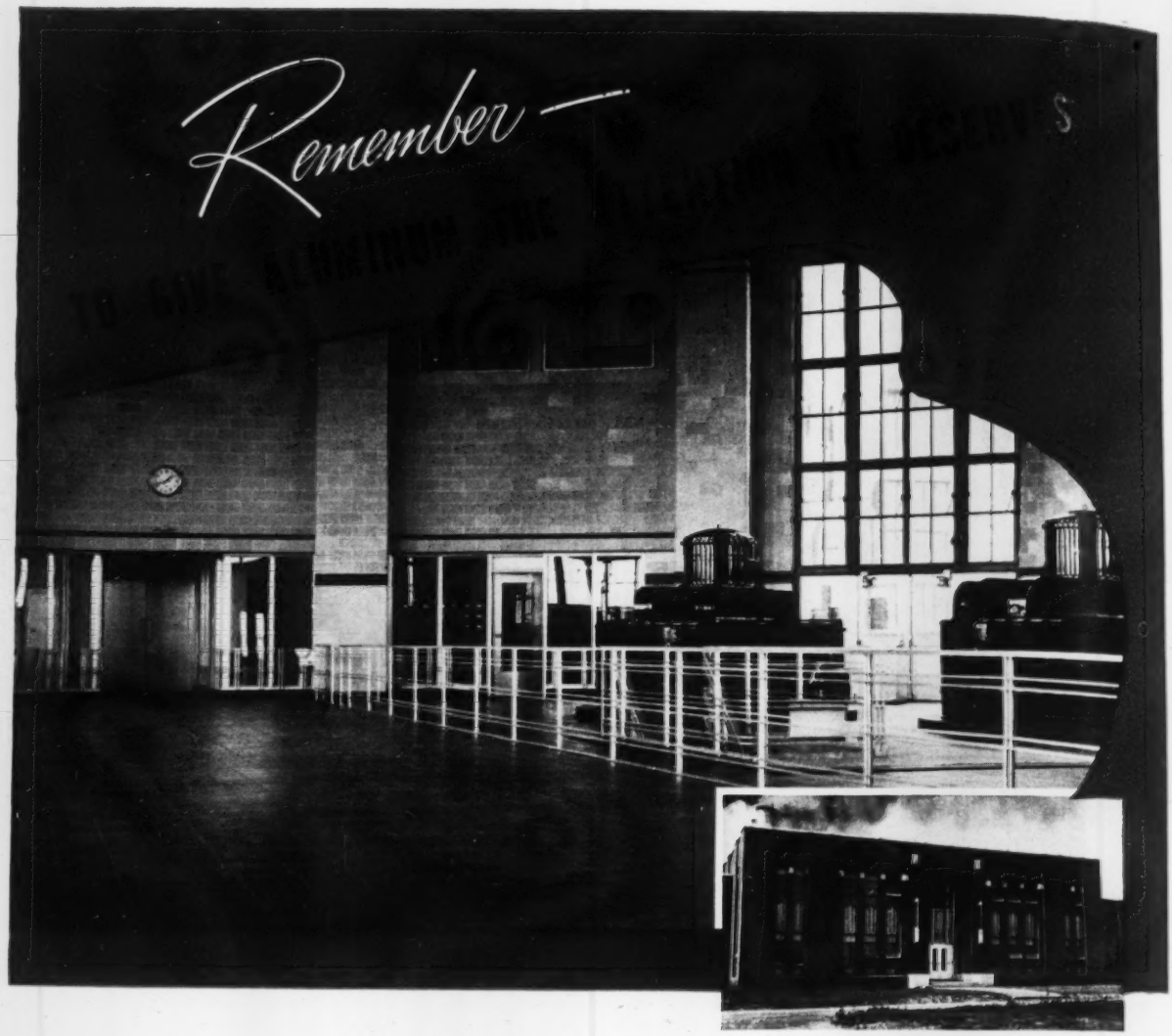

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The Week In Engineering and Construction

ENGINEERING NEWS-RECORD • AUGUST 6, 1942 • VOLUME 129 • NUMBER 6

Plant construction expected to be active in new fields

Materials shortages reflect overbuilt production in some types of plant. See need for rolling mills and foundries

Construction of plant capacity for war is likely to take a new direction as a result of the present crisis in arms production—a crisis which is producing shutdowns in armament plants, talk of materials shortages, and general discouragement.

That projects now under way are being halted does not mean that there is no more plant construction to be done. It does mean that what projects are undertaken will be of a rather different character.

Cancellation of the Higgins shipyard contract and the contract for the Simmons Company's Kenosha, Wis., ammunition plant carries farther the same philosophy that produced the policy announced last May (*ENR*, June 4, p. 896) of holding further expansion of plant to a minimum. At the same time, plants already built and in production are being cut down to short shifts or stopped altogether.

There will be more of this over the next month or two, and war officials admit that arms production, which has doubled or better since Pearl Harbor, is now going to flatten out for a little while.

These moves are generally interpreted as arising from shortages of raw materials. If this were true it would be pretty discouraging, since it would imply that the war production program, now running at a $4,500,000,000 a month rate would never be able to reach the $7,000,000,000 level planned for next year.

Not true shortages

But the material shortages which caused such shutdowns as that of the Higgins yard are future shortages—the fear that next year, when war production is at the $7,000,000,000 clip there won't be enough material available.

The present difficulty, key officials believe, is an unbalance in the production program between plants to build finished munitions—guns, planes, tanks—and plants producing parts, as sub-assemblies and semi-fabricated goods. To date most new plant construction has been of the finished goods variety, and now some of these plants are having to slow down because of inadequate capacity at the semi-finished level.

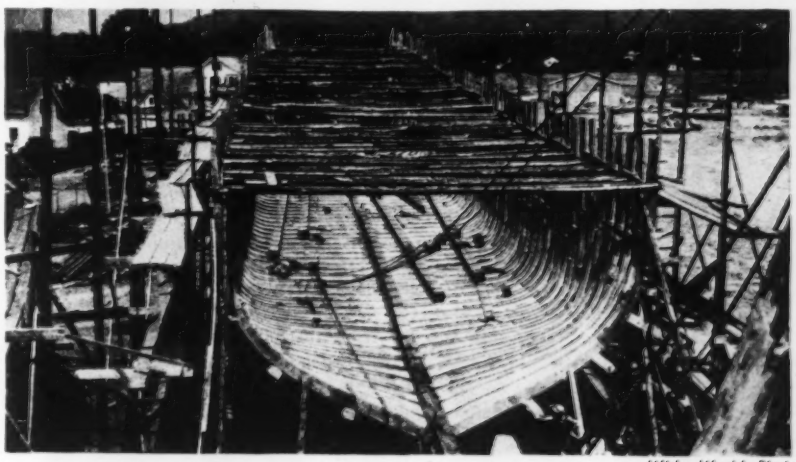
For the construction industry, this situation suggests that there may still be a certain amount of plant construction to be done despite the evident fact that the country is already overbuilt on plant capacity in many important lines. Future plant construction jobs are likely to run to such things as foundries and rolling mills, rather than the more spectacular armament plants.

Reject Tacoma Bridge demolition bid

The Washington State Highway Department has rejected as too high the only bid it received last month for dismantling the cables and towers of the collapsed Tacoma Narrows suspension bridge.

J. Philip Murphy Corp. and Woodworth & Co., of Tacoma, proposed to do the work for $450,000, retaining the right to keep and sell the 7,660 tons of salvaged metal. The project calls for dismantling of the two 1,927-ton towers, and mile-long suspension cables within ten months, and removal of all material from the site within a year.

Burwell Bantz, state highway director, announced that bids will be opened on a second call August 11, in the office of the State Toll Bridge Authority in Seattle. If no satisfactory bid is received at that time, he indicated the state may abandon the project, or do the work itself.



Wide World Photo

Old time methods used in wood barge construction

Shortage of plate for steel barges to supplement the capacity of coastwise cargo vessels has given the lowly barge a new lease on life. In a slump since the beginning of the steel ship era—about 1900—barge building is now booming "way down East."

Shown above is the hull of one of ten such barges which are under contract. The barges are to be 180 ft. long, with a 33-ft. beam capable of carrying 1,100 to 1,300 tons of coal or other cargo. According to present estimates the vessels will cost about $200,000 each.

There are no big cranes or large machines for subassembly visible in the picture; the old tried and true method of building wooden ships is in full command.

The frames, constructed on special jigs as needed for assembly, weigh about two tons each, and are placed through use of block and tackle and the hauling of the work crews. Frames are set 6 in. apart and planked over with 4-in. Oregon fir.

Cox, Connecticut highway commissioner is cleared of all misconduct charges

Governor reinstates suspended commissioner after complete investigation. Finds charges relate to errors and mistakes of subordinates not justifying removal of the department head.

Finding no evidence of misconduct in the report of a state referee, Governor Robert A. Hurley of Connecticut last week reinstated William A. Cox as state highway commissioner. Cox had been under suspension for nearly six months following charges of misconduct, material neglect of duty and incompetence filed with the Governor by the state's attorney general.

The Governor stated that the attorney general had expressly disclaimed any charge that Commissioner Cox was actuated by corrupt or malicious motives in any of the acts of omission alleged against him, leaving it for Hurley to determine whether the commissioner's acts can fairly be construed as derelections of duty. "I am convinced," said the Governor, "that errors and inadequacies of judgment were present, on occasion, in the management of the state highway department. However, I am compelled to conclude that errors and inadequacies, while warranting public attention and correction, are not such as to form the basis for removal of Commissioner Cox. In the main, the acts were those of subordinates in the highway department rather than of the commissioner."

Centered on contract work

William J. Cox was appointed head of the Connecticut highway department in April, 1938, having previously been assistant professor of civil engineering at Yale University. The charges made against him centered largely in contract operations of the department since he took office. Because of their highly technical nature, over 20 days were taken for the presentation of testimony and the referee's report is a 20,000-word document supplemented by numerous exhibits.

The principal charges were that engineers of the department accepted grid flooring for redecking the bascule span of the Stratford Avenue Bridge in Bridgeport that did not come up to the department's strength specifications; that the award of one contract was conditioned upon the contractor doing certain work on another contract on which he was then engaged; that contractors were not barred from bidding when evidence pointing to collusion was discovered; that in connection with the construction of the Riverfront Boulevard in Hartford, one bidder was told by engineers of the department that hydraulic fill would be acceptable though the specifications called for roll fill, this information not being given to other prospective bidders; and that changes made in the methods prescribed for building the foundations for bridges in Ledyard Township after the work was under way showed poor engineering judgment and resulted in unjustifiable claims by the contractor.

Other charges were that the department had not exercised adequate control over the use of road materials supplied to towns in the state for town road work; that there were irregularities in the way a storage building was built for the department's plant at Portland; that lumber was stored in a wasteful manner in one of the bridge department yards; that specifications for bituminous mixtures for a certain type of work were so written as to admit the use of only one product; that there was not proper inspection of under-drain installations and of grading work on the relocation of State Route 15 and of the installation of expansion joints on the Merritt Parkway; that the contractor on the piers for [illegible] New London bridge was permitted to [illegible] a design for his cofferdams that pr[illegible] inadequate; and that employees of [illegible] department were assigned to special [illegible]tudy at Yale University without adequa[illegible] authority.

Information to bidders

The Governor devoted [illegible]siderable attention to the matter of [illegible]e Riverfront Boulevard at Hartford w[illegible]re the A. I. Savin Construction Co., w[illegible]ch was doing dredging work in the neig[illegible]rhood, had asked whether hydraulic fill would be acceptable and had been [illegible]vised that it would be. The company's bid on hydraulic fill was lower than the bids on rolled fill and was accepted. The Governor said, "the practice of furnishing supplemental information to one of several bidders has never commended itself to me as being good engineering or accepted governmental practice. It strikes at the very heart of competitive bidding and frequently furnishes an improper advantage to a bidding contractor. . . . It is true that highway and bridge specifications frequently require clarification and interpretation, and bidders have every right to expect that legitimate interpretive information will be furnished them on proper request. However, I do not regard the information which was conveyed to the Savin Construction Co.

Consider reorganizing Jersey bureau

Reorganization of the New Jersey State Highway Department—a move that might include streamlining the department into two main divisions and removing its present status as a semi-independent state government agency—was under consideration last week, following submission of a survey to Governor Edison.

The report was made by Roger Hinds, of South Orange, who conducted an investigation into the department and the administration of former Commissioner E. Donald Sterner last summer.

Commissioner Spencer Miller said recommendations made would be taken under immediate consideration, and that some of the changes proposed had already been made.

Principal recommendations made by Hinds included:

The streamlining of the department into two main divisions, administrative and engineering. The engineering division would include all construction, maintenance, federal-aid projects, research and testing. The administrative division would cover the land acquisition and legal departments, finance and accounting, office management, public relations, future planning and plant and equipment.

The establishment of a non-salaried small advisory board to consult with the commissioner on his program.

Establishment of a single state condemnation commission, to be composed of an engineer, a lawyer and an expert in land values. Appeals from this commission's award would be made direct to the Supreme Court.

Consolidation of the now separate highway department fund with the state general fund.

Reduction in state aid going to counties and municipalities, which has risen from $75,000 fifty years ago to about $10,000,000 at present.

The report particularly singled out for criticism alleged widespread disregard of civil service regulations, favoritism to certain lawyers, and in the employment of real estate appraisers and traffic enumerators, politics in promotion and hiring of laborers, and lack of a long range building program. It charged that "a variety of abuses" had grown from the system of "check appraisals" made when the department and outside appraisers varied widely on value of land. It said such "check appraisals" "very often" tallied with predetermined prices to be paid for the land.

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s being in this category. Officials of this oncern were told they might use hy-raulic fill in preparing a foundation, whereas the original specifications clearly omprehended the use of dry fill. Giving f this information constituted neither larification nor interpretation of specifi-ations but deviated from them. The mere act that the commissioner has stated that his procedure has been employed for many years not only in Connecticut but lso in adjoining states, neither justifies or excuses it. . . . I am serving notice, through this decision, that the practice s undesirable and in my judgment a breach of engineering ethics."

With respect to most of the other charges, the Governor found that several of them centered on questions of engi-neering judgment, and that few of them ever had come to the commissioner's attention.

On the question of removal of the com-missioner, the Governor said, "I recog-nize that only the highest reason and surest proof can justify the destruction of the honor, reputation, and career of a public servant against whom no claim nor proof of dishonor has been made. Through my study of this matter, I have not been unmindful of Commissioner Cox's varied career in the field of engi-neering. Following a thorough and scholastic training, he came into the prac-tice of his profession and was then called to the faculty of Yale University. The acquisition of his professional status re-quired years of study. This status is not a possession to be trifled with except on convincing proof of willful misconduct or neglect in the discharge of his official duties. I do not find this misconduct or neglect present from a reading of the testimony and a thoughtful study of the findings of Referee Hinman. Therefore, the order of suspension entered by me on Feb. 4, 1942 is revoked."

Manpower allocations policy develops as nation's next major war action

Construction industry seen affected by policy now being developed by McNutt group. Voluntary phases expected to give way to compulsion

Increasingly strict priorities on materials have been a key feature of business activity for the past year or more. The time now is coming when construction men and others must accustom themselves to priorities in labor.

Outright allocation of labor is still some months away, however, particularly in the construction industry. Labor shortages are not as tight in that industry as in many others, and moreover it is the disposition of the War Manpower Commission to preserve as long as possible existing closed shop arrangements—such as those common in construction—by which unions furnish men.

Nevertheless, first steps towards labor allocation are now being taken, initially as moves to reduce labor raiding among war contractors. The job is being handled by the War Manpower Commission, of which Federal Security Administrator Paul McNutt is chairman. WMC was set up several months ago to co-ordinate the activities of all the federal labor supply agencies, such as the U. S. Employment Service, the Selective Service, the Civil Service, the National Roster of Scientific and Technical Personnel, and the like.

These are the steps in the immediate offing:

Imposition within the next few weeks of federal controls over labor-raiding in critical areas.

Expansion of these controls into a primitive system of labor priorities on war work.

Development of a more scientific system of occupational deferment from the draft.

Elimination of voluntary enlistment into the services of draft-age men.

Preparation of a National Service Act to provide the legal foundation for totalitarian manpower allocation. This is now being written but is unlikely to come before Congress until after election.

Paul McNutt's policy on war contractors' stealing men from each other makes the usual bow to voluntary methods. Labor and management groups in war-production centers are being encouraged to get together and promise to cooperate. Agreements are being worked out by which each employer promises that before hiring a man now working in a war industry he will first get the consent of the present employer.

In the really critical areas, it is not expected that the scheme will stay voluntary long. A half dozen or so areas already have been picked which will be declared "critical labor areas" as soon as McNutt can get his field organization set up.

Lists to be prepared

In each of these areas, a list of "critical occupations" will be established. Then if any employer in the area wants to hire a man in one of the critical occupations who is now working in an essential industry, he must clear the transaction through the U. S. Employment Service.

"Essential industries" will be separately defined in each critical area, but in general the definition will follow the list issued by Selective Service (*ENR*, July 23, p. 129) including construction.

Initially at least employers in the critical areas do not turn over the entire recruiting job to USES. They can still freely hire men who are unemployed or working in non-essential industries. Procedures on non-critical occupations are unaffected. And employers may even scout out for themselves critical men now working in essential industries, though they have to get USES approval.

Nor will USES always refuse its approval. Where a man can use a higher skill in a new job he will be permitted to transfer. He can also make a shift if he is working part-time in his present job, if the new job is much easier to get to, or if he has "compelling personal reasons" for changing.

A completely new approach to the question of draft deferment appears to be a possibilty of the studies now being made by the War Manpower Commission.

Florida takes over Key West road job

The Florida State Road Department last week rejected as too high all pending bids for work on the Overseas Highway to Key West, and prepared to undertake the $3,000,000 job with its own forces.

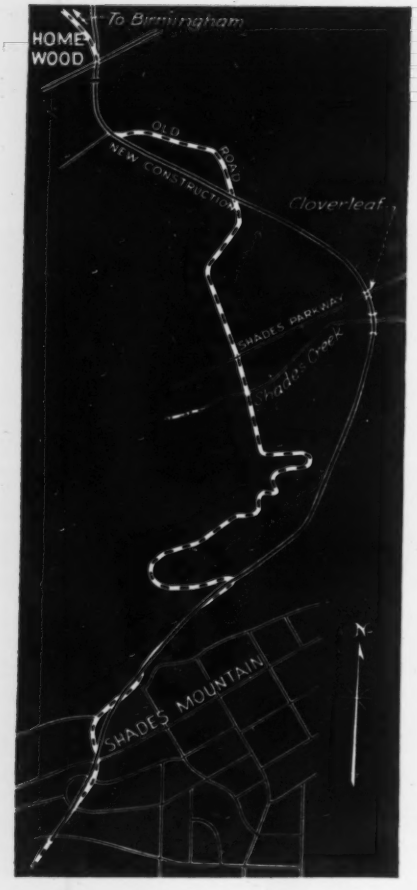
Plans call for paving 83 miles of highway and reconstructing 23 bridges on the abandoned roadbed of the hurricane-wrecked Florida East Coast Railway. The board rejected low bids totaling $1,373,603 submitted by the Belcher Oil Co. of Miami for surfacing 41 miles of the highway (*ENR*, July 16, p. 79).

The Cleary Brothers Construction Co., of West Palm Beach, notified the department it would not start work on a contract to build 18 bridges for a total of $882,742. The state will take over this work, in addition to three other bridges on which contractors had submitted bids, and the remaining 42 miles of highway for which bids had not been asked.

Thomas A. Johnson, chairman of the road department, said that if the bid submitted by the Belcher Co. had been accepted, and if bids on the remaining 42 miles of highway should be submitted on the same basis, the project would cost the state about $1,000,000 more than had been appropriated.

The department will start work on the Overseas Highway as soon as formal agreement with the Federal Public Roads Administration is drawn up and materials are delivered. Recent restrictions on non-military road construction has left the state with plenty of labor and equipment available for this work but it must be assured of a supply of material.

New road looking towards Shades Creek. A mall of the center of the four-lane highway is yet to be added. Note drainage facilities provided.



New improvement totals a little over a mile in length and includes a bridge over Shades Creek and a cloverleaf at Shades Parkway.

Alabama Improves Road into Birmingham

RECENTLY COMPLETED was a $750,000 improvement of the Alabama strategic highway network to provide better access to the city of Birmingham from the south. Known as the Shades Mountain project, the work is a part of the improvement of the Beeline Highway. Four dangerous hairpin curves and a narrow bridge were eliminated by construction of a four-lane highway up Shades Mountain on an 8-percent grade.

Construction of a 318-ft. reinforced-concrete, six-span bridge with "floating abutments" was necessary where the new road crosses Shades Creek. The five bridge piers are supported on rock, but the end abutments rest on the high earth approach fills. The fill on the mountain side of the bridge is 70 ft. high and required 90,000 cu.yd. of material; that at the other end is not as high but contains 60,000 cu.yd. of fill. Although the approach embankments were stabilized by means of cement grout, the bearing plates of the bridge are so constructed that the bridge's superstructure can be jacked up in case of settlement of the abutments.

The bridge is partly on an 8-percent grade and the remainder is on a vertical curve. In the horizontal plane, a 4-deg. curve along the centerline of the bridge was necessary. This curvature resulted in a 4-ft. maximum superelevation for the 60-ft. wide deck, which includes two 24-ft. roadways and two 4-ft. sidewalks.

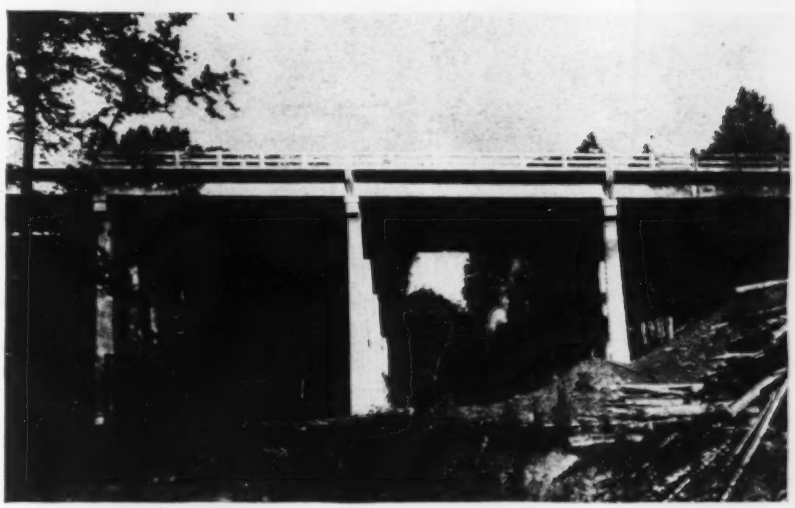
Leaving the 70-ft. fill on the mountain side of the bridge, the highway passes through a cut of 70-ft. max. depth. Excavation here was almost solid sand-tone.

Immediately adjacent to the Shades Creek Bridge the Beeline Highway crosses Shades Parkway, which is a by-pass enabling motorists to reach other trunk-line highways without passing through Birmingham. At this point a cloverleaf intersection was built. The highway is carried across the parkway by a 61-ft. span, rigid-frame bridge providing two 24-ft. roadways and two sidewalks and a 14-ft. clearance over the parkway below.

All construction was by the Alabama State Highway Department in cooperation with the Public Roads Administration and the WPA. R. D. Jordan, district engineer of the highway department, was in immediate charge, assisted by L. H. Norris, Jr., district resident engineer. W. G. Pruett is state highway director and J. P. Trotter is bridge engineer. The bridges were built by the W. C. Howton Contracting Co., Birmingham. The grading and paving work was handled jointly by the state and WPA.

How a hairpin curve on the old route was eliminated by the new construction in the background is clearly illustrated by this picture.

Beeline Highway is carried across Shades Parkway by this rigid frame overpass, which has a span of 61 ft. The structure is veneered with coursed sandstone masonry for decorative purposes.



Shades Creek Bridge, which is built on both vertical and horizontal curves, is so constructed that superstructure may be jacked up to compensate for settlement of the abutments, located on high approach fills.

WASHINGTON HIGHLIGHTS

IRON and steel plates may be delivered only on orders with a priority rating of A-1-k or better according to an amendment to War Production Board order M-21-c. An exception is made for deliveries by warehouses for maintenance and repair purposes.

THE American Standards Association has contracted with the government to help it set standards for goods and materials necessitated by WPB restrictions and Office of Price Administration price actions. ASA will be compensated at cost for its work up to $90,000 yearly.

To insure that colleges will produce an adequate supply of technically trained men for the needs of Army, Navy, and industry, Chairman McNutt of the War Manpower Commission has appointed a committee of government officials headed by President Edward C. Elliott of Purdue University to study the best means of utilizing educational facilities. The committee is working on such problems as financing college attendance by talented students, ensuring against depletion of the supply of technically trained men by the draft and voluntary enlistments, and routing of students towards the appropriate service or industry

MANUFACTURERS of building materials who have had to make changes in their products because of material shortages are given a method to determine the ceiling price on the modified product by OPA Regulation 188. The rule is that the price of the modified product shall be the price of the original article, plus or minus the increase or decrease in direct unit cost brought about by the change. Costs, for this purpose, are figured at the levels of last March.

When a wholly new product which is not simply a shortage-born revision of an old one is introduced, the price is determined by applying to the unit direct cost the average dollar markup or the average percentage markup, which ever is lower, of two comparable articles—one with a higher cost and one with a lower cost. If for some reason these formulas would work a hardship, the manufacturer may apply to OPA for a special price determination.

ABOUT $75,000,000 probably will be assigned to the War Department out of the $600,000,000 of new housing money now pending before Congress. Although it has not been the general practice to farm out housing jobs among different government agencies since housing was consolidated this Spring into the National Housing Agency, the War Department still prefers to have the Corps of Engineers handle war housing projects on or near military reservations. NHA practice now is to offer all such jobs to the Army.

At present, the Corps of Engineers is building about $15,000,000 worth of civilian housing. This includes fourteen projects for provision of family-type housing, amounting to [illegible] dwelling units at a cost of $3,500,000. The larger part of the job, however, consists of dormitory construction. About 110 projects are underway to house about [illegible],000 persons, and it is expected that [illegible] the pending money to be assigned to [illegible] Army will be used for dormitories.

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FWA moves staff to new Boston office

The immediate transfer to Boston of about 40 members of the staff of Federal Works Agency Region No. 1, including engineers, was announced recently by John M. Gallagher, regional director at New York City.

The move is a part of a general trend toward decentralization of FWA work (*ENR* March 5, p. 365).

J. A. McConnell, formerly regional engineer for the nine northeastern states, will be in charge of the sub-regional office as assistant regional director. All Federal Works Agency projects in the six New England states will be handled through this sub-office, and it is contemplated that Works Project Administration activities for the area also will center there, in an administrative sense.

Among the staff transferred from the New York offices are: Joseph F. Caimes, assistant regional engineer; William Braisted, Ralph B. Cornell, Julius C. Corra, Prentess French, Kenneth C. Newhall, J. H. O'Shea, F. I. Tucker, engineers.

Concrete placing goes into high gear at Center Hill Dam

Placing concrete for Center Hill Dam being built for power and flood-control by the Nashville District, U. S. Engineers on the Caney Fork River in north central Tennessee is now in full swing. The central mixing plant employed is shown near the center of the picture. From it, concrete is delivered by train in 4-cu.yd. buckets to the two full-revolving cranes at the left, which will be used for placing all the concrete needed in the structure.

Center Hill Dam will provide about 2,148,000 acre-feet of storage in a lake 64 miles long. Maximum height of the dam will be roughly 250 ft. and it will include a 1,382-ft. concrete section and 790 ft. of earth embankment, making the total length 2,172 ft. Work required includes placing approximately 870,000 cu.yd. of concrete and 2,500,000 cu.yd. of earth fill the lateer rolled in place.

Massman, Metcalfe & Hamilton Construction Companies are the general contractors and the Raymond Jones firm is the sub-contractor for the excavation and fill work. For the general contractors R. G. Stowell is general superintendent, and for the Jones company R. G. Knowers. Lt. R. W. McCall is acting resident engineer for the U. S. Engineers.

U. S. Engineers photo

Equipment used at Friant Dam now employed in constructing dam in Tennessee

Two hammerheads and much of the other equipment used in placing concrete for Friant Dam of the Central Valley Project in California (ENR. Aug. 1, 1940, p. 144) have been installed for similar work for Dale Hollow Dam on the Obey River, near Celina, Tenn. The equipment is being employed by the Morrison-Knudsen Co., Boise, Idaho, general contractors, and the dam is being built by the Nashville District, U. S. Engineers.

The concrete gravity structure will be 200 ft. high and 1,700 ft. long, and will store water for flood control and for maximum production of 54,000 kw. of electric power. Its reservoir, which will cover 20,000 acres, will provide 1,639,000 acre-feet of storage.

A spillway section 400 ft. long and topped by six 12x60-ft. tainter gates, will occupy most of the present width of the river valley. The down-stream toe of the spillway section will form a stilling basin of the bucket type. The powerhouse intake section, 255 ft. wide, will adjoin the spillway portion. It will contain three 15-ft. dia. penstocks, spaced on 42 ft. centers. Tractor type gates will control flow through the penstocks.

Maj. Hubert B. Elder is resident engineer for the U. S. Engineers and M. G. Kennedy as project manager, is in charge for the general contractors.

BRIEF NEWS

THE Chamber of Commerce of Tulsa, Okla., has announced it is prepared to spend $20,000 to investigate the possibilities of making the Arkansas River navigable. A group of engineers, not yet appointed, will make a study of the economic and engineering phases of the project, and it is hoped that Muskogee, Fort Smith, Little Rock and other interested river cities will contribute to expenses of the study.

AN increase of more than $3,000,000 in the assessed valuation of public utility properties in Oregon over 1941 has been noted in a schedule released by the Oregon Tax Commission. Total figures put full cash value of utilities at $316,786,153 in 1942, compared with $304,896,190 in 1941.

THE City Water, Light and Power Department of Springfield, Ill., recently installed an 18-million gallon high service electric driven water pump at its Lakeside Station to control the speed of discharge and regulate pressure at the pumping station and power plant.

OUTLINE of a considerable improvement program to be carried out in the Little Rock, Ark., area by the county planning board, working in cooperation with federal engineers, has been made public. Improvements to several highways and roads, as well as city streets and public buildings, including the Pulaski county court house are included in the project.

ESTIMATING that 10,000,000 tons of shipping will pass through the Illinois waterways this year, the Illinois Defense Council has sent a request to the Navy and Coast Guard that ice breaking operations be expanded next winter to expedite navigation.

THE Mexican Ministry of Public Welfare has announced plans to build two new hospitals. One will be a 150-bed civil general hospital at Monclova, Coahuila and the other a 300-bed civil general hospital at San Luis Potosi City. Total cost will be more than a half million dollars.

THE Illinois Bureau of Highway Research has estimated that approximately 300,000,000 less vehicle miles were driven in Illinois this June than last. The estimate is based on an actual 19 per cent decrease on the rural primary highway system, which amounts to about 100,000,000 vehicle miles.

A CONTRACT for construction of 1,000 plywood lifeboats—the first of their kind ever built, was awarded to a West Coast firm by the Maritime Commission last week. The new vessels are said to have passed Coast Guard tests, and will be 22 ft. long, have a capacity of 25 persons, and will be equipped with sails. Every fourth boat built will have an auxiliary motor. Total value of the contract is about $1,300,000.

ARMY engineers have recommended to Congress modification of the navigation project for the Calcasieu river and pass, near Lake Charles, La., to provide for a 30-ft. channel around Coney Island at a cost of $55,000.

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Illinois drops highway bureau architects office

Abolition of the office of the Illinois Bureau of Highways architect as an economy measure has been announced by Walter A. Rosenfield, director of public works and buildings. The measure is expected to effect an annual saving of $80,000.

Elimination of the office, which had operated since 1934 under the state division of highways, dispenses with the services of about twenty employees, including Ralph C. Harris, highway architect. The function of the bureau has been to design and supervise construction of highway district offices, garages, storage depots, police headquarters and police radio broadcasting stations.

"The state's current requirements for such structures have been virtually completed," Mr. Rosenfield said, "and such future similar construction as may be needed will be handled by the regular division of architecture and engineering in the Department of Public Works and Buildings."

MEN AT WORK

Rapid construction of the Smyrna, Tenn., airbase is due to the hard work of the three army engineers, above. CAPT. J. C. SEALE (left) is military assistant, MAJ. O. B. BEASLEY (center), area engineer, and LIEUT. G. E. SHAW, executive assistant.

At the entrance to the Tulsa, Okla., municipal building A. B. JEWELL (left above), assistant superintendent of the TULSA water department, and W. F. McMURRY superintendent, discuss details of a $900,000 improvement of the city's waterworks. Many different types of work are underway, including improvements of the pumping, filtration, and distribution facilities.

The men above hold key positions on construction of Center Hill Dam in Tennessee. Left to right: C. A. SEARCY, superintendent for Massman, Metcalfe & Hamilton Construction Co., the general contractor; R. G. STOWELL, general superintendent for the contractor, T. A. RYOINGSVARD, office engineer for the U. S. Engineers; and C. H. WAGNER, resident engineer for the army engineers.

Bethlehem Steel Co.'s superstructure operations for a highway bridge under construction across the Mississippi River at Dubuque, Iowa, are being supervised by the two above. W. W. OSKIN (left) is resident engineer, and JOSEPH CAMPBELL is superintendent of construction.

Improvement of a long stretch of Route 66 east of Waynesville, Mo., to provide a dual-lane, divided highway is the major interest of the three Missouri State Highway Department engineers above, left. Left to right: W. A. LA REW and C. L. CRAWFORD, project engineers, and ORVAL ENDICOTT, district foreman.

MEN AND JOBS

B. A. Poole, chief sanitary engineer for the Indiana State Board of Health, has taken a leave of absence to join the Sanitary Corps of the U. S. Army, with the rank of captain. Other changes in the Indiana organization included the promotion of **Frank S. Stafford** to the post of director of the division of health education and **Joseph L. Quinn, Jr.** to acting director of the division of environmental sanitation.

Victor C. Heim has been appointed city engineer of Cudahy, Wisc.

Paul A. Verdier, recently employed in the engineering department of the Aluminum Co. of Canada, has received a commission as a sub-lieutenant in the Royal Canadian Naval Reserve.

J. J. Dunlap, of Hanceville, Ala., has been named Cullman county road and bridge commissioner, succeeding **H. G. Beaird,** who resigned to return to employment with the Alabama Highway Department.

H. B. Stuart, formerly of Toronto, has moved his consulting engineering practice to Montreal, Canada.

A. R. Moffat is now employed as reconnaissance engineer in the Naval service of the Department of National Defense at Halifax, N. S. He was formerly employed by the H. G. Acres Co. at Kenogami, Quebec.

James A. Lindley, former chief engineer for the southwest division of the Soil Conservation Service, has been appointed director of the War Relocation Authority project at Granada, Colo.

Richard Bennetts, former chief engineer in Colorado for the War Relocation Authority, has been appointed chief engineer of the regional WRA public works division.

De Gaspe Beaubien, vice president of the Engineering Institute of Canada, has become chairman of the Montreal Citizens' Recruiting Committee for Home Defense.

R. A. Strong, a civil engineer who has been consultant to the contract branch of the Canadian Department of Munitions and Supply since 1940, has been appointed director of the branch.

Fred Bevington, city water superintendent at Milwaukie, Ore., for the last eight years, has resigned to accept a post with the Federal Housing Authority in the area. **William Hofmann,** who had been Bevington's assistant, was appointed to replace him.

Lt. Col. Wendell P. Trower, who has commanded an Engineer battalion at Portland, Ore. since October, 1941, has been transferred to Camp White, Ore. **Capt. W. B. Stelzenmuller,** battalion adjutant, also has been transferred to Camp White.

Arthur Duperron, a civil engineer and assistant general manager of the Montreal Tramways Co., recently was elected president of the Canadian Transit Association.

Sophus Thompson, professor of civil engineering at Southern Methodist University, Dallas, Tex., has entered army engineer training work at Fort Belvoir, Va.

Hayden T. French, for the last three years in charge of the Ohio State Highway Department's construction of highways in the Cleveland area, has been appointed assistant division engineer in charge of all new construction in Cuyahoga, Lake and Geauga counties. Mr. French succeeds **D. R. Terrill,** who recently was commissioned a captain in the Corps of Engineers.

Col. Arthur M. Wolff, who has been commanding officer of the Kenosha, Wis., ordnance plant, has been transferred to Milwaukee.

R. L. Boyce, of Holdredge, Neb., has been appointed chief engineer in charge of all construction at the Sioux City, Iowa airbase.

Robert H. Root has been appointed assistant director of the California state department of public works at Sacramento, Calif.

John R. Cloyd, engineer for a number of western Cuyahoga County (Ohio) municipalities, has obtained an Army captain's commission and has reported for duty at Washington.

Lieut. (jg) Harold W. Williamson, former Chicago, Ill. engineer, has been named security officer at the naval training school for signalmen at Butler University, Indianapolis, Ind.

H. R. Flint, former Idaho state highway director, is now resident engineer on construction of a war plant near Pocatello, Idaho.

J. E. West, formerly an engineering employee of the Brookfield Construction Co. at Halifax, N. S., has graduated from the Royal Canadian Air Force training school at Moncton, N. B.

J. E. Buchanan, dean of the college of engineering at the University of Idaho, has reported for active service as a reserve first lieutenant at the Engineering Replacement Training Center, Camp Leonard Wood, Mo.

Col. E. A. Dubac, chairman of the National Harbors Board of Canada, recently announced his resignation. He was formerly chief engineer of the department of railways and canals, and was appointed to the Harbors Board in 1936.

John Cliff Bisset, assistant Dallas, Tex. city engineer, has reported to Fort Sam Houston as a major in the Corps of Engineers.

W. O. Kively, office engineer of the Montana highway department and a member of its engineering staff for 21 years, has left to undertake a war project in the Bahamas.

Charles L. Scott has been appointed to the staff of the city engineer of Cleveland, Ohio.

C. O. Markson, of Brainerd, Minn., has taken a position as an engineer on a defense project in Wyoming.

Maj. Harry D. Lovering, of St. Paul, Minn., has been transferred from the U. S. District Engineer Office at Grand Island, Neb., to Denver, Colo.

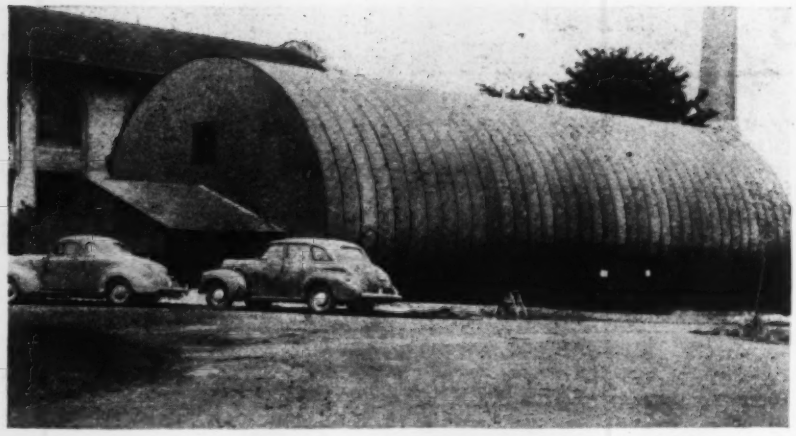
W. W. Mitchell, director of the Arkansas state highway department, has assumed the duties formerly handled by **W. W. Zass,** chief engineer, recently called to active army service.

Gerald W. Fling, Seneca County, Ohio, engineer, has been accepted for officer's training in the U. S. Army, and will report for duty August 20.

Manuel de Losada of Mexico City, **Salvador Sanchez Martinez** of Vera Cruz, and **Alberto J. Terrones** of Mexico City, all recent Mexican engineering school graduates, have been awarded two-year scholarships by the U. S. government to permit them to study with American business enterprises.

Lt. H. M. Martin has been appointed area engineer for the construction of an addition to the Fitzsimmons General Hospital, near Denver, Colo.

Roy Klein, senior highway engineer with the Public Roads Administration at Denver recently was transferred to Fort Worth, Tex. **A. V. Williamson** of Denver will take over Mr. Klein's duties.



Wind tunnel will test Tacoma Bridge model

Built especially to house a wind tunnel in which tests will be conducted on a model of the Tacoma Narrows Bridge, the unusual building shown above has been completed on the University of Washington campus at Seattle. 100x34 ft., with an office 15x28 ft. at one end and a shop of the same size at the other, the building is 31 ft., high at the top of its arches. It is constructed of laminated wooden arches, spaced every 32 in. of the length, and covered with composition roofing paper.

Built under direction of Prof. F. B. Farquharson, who was present when the Tacoma Narrows Bridge collapsed almost two years ago, the building will contain a low velocity wind tunnel, with a narrow jet, 100 ft. long and only 4 ft. high. A bridge model of exact scale will be used for tests.

Ferries to aid Seattle's war-born traffic jam

Three ferries that formerly operated in San Francisco Bay will be utilized to carry shipyard workers from Seattle's central downtown area to the Swan Island and St. Johns plants of the Oregon Shipbuilding Corp. The corporation said that nearly $1,500,000 has been appropriated by the U. S. Maritime Commission to assist in this phase of completing a citywide defense transportation system.

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Portland, Ore., utility cuts book valuation

The Portland (Ore.) General Electric Co. is reducing its book property value from $72,000,000 to $63,000,000, as result of a compromise between the company and the Federal Power Commission.

The commission had sought a $12,000,000 writeoff in book value, but trial examiner Norman G. Gray agreed to the lower figure at a recent final hearing. Under terms of the agreement the power firm will write off $5,000,000 immediately, charging this up to original cost and book cost. An additional $2,000,000 will show the purchase cost of plant in excess of original cost, and $2,000,000 more will be amortized over a ten-year period. The FPC's action in demanding reduction book value follows closely similar decisions within the last few months (*ENR*, June 25, page 1031).

Work started on Prince Rupert-Cedarvale highway

Construction of the 136-mile Prince Rupert-Terrace-Cedarvale Highway in British Columbia has been under way for about four weeks, according to the Canadian Department of Mines and Resources.

The highway, fairly passable at some points, will include some of the most difficult construction in British Columbia, and will cost about $5,500,000 when complete. The road will be a standard 20-ft. graded highway.

Work has been divided into eight sections, ranging from 11 miles to 18 miles each, and all contracts have been awarded.

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June gasoline tax collections drop

Gasoline tax collections for June, 1942, in 26 states were 17 percent less than in June, 1941, according to the Public Roads Administration. Reductions in states in the gasoline rationing area ranged from 22 percent in Virginia and Georgia to 31 percent in Rhode Island.

The drop in tax revenues was reflected in decrease in travel on rural roads, the PRA said. There was a 30.7 percent reduction in vehicles counted at 205 points on rural highways in 18 states for the past month in comparison to the same month in 1941.

Test of WPB labo board's powers d...

The extent to which the ...ard of Review set up by the War Pro...tion Board to adjudicate disputes un... the Construction Labor Stabilizati... Agreement can deal with CIO-AFL juri...tional disputes will be put to a test t... week in a dispute over painting work ... a Dayton, Ohio General Motors plant.

The stabilization agreement ...as always had an exclusively AFL ...—a fact which has been very irrita...ng to the CIO—and the Board of Re...w's labor members are all from the AFL. The board has never had a dispute brought before it that involved a CIO union.

The present dispute has had a long history. It began with contention between the AFL building trades unions and the CIO electrical and machine workers as to which should do the painting in a G. M. Frigidaire plant being re-conditioned for war work.

The CIO union does the production work in the plant. Eventually, CIO men did the painting, and the AFL unions then struck on some construction work underway at the plant.

Initially, the Board of Review felt that it had no jurisdiction in the case, and the dispute therefore went to the War Labor Board. WLB ordered the AFL workers to go back on the job, threatening that if they did not, it would name an arbitrator whose decision would be binding.

Meanwhile, the Board of Review decided that perhaps it did have jurisdiction. WLB therefore turned the case over to the board and the AFL workmen went back to work.

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Arkansas River survey nearing completion

A complete engineering and economic survey on feasibility of navigation of the Arkansas River as far upstream as Oklahoma is to be completed by Army engineers by September 30, N. R. Graham, member of the board of the Southwest Valleys Association said recently.

The report, which has taken over five years to prepare and cost more than $1,000,000, will be submitted to the Army Board of Rivers and Harbors for consideration.

The city of Tulsa and other river municipalities for years have proposed that the Arkansas be made navigable from the Mississippi river to Muskogee, Okla., and that the Verdigris river be made navigable from that point on to Inola, Okla., just a few miles east of Tulsa.

There is no thought that the navigation program would be initiated until after the war.

Tanker wrecks lift bridge over C&D Canal

In broad daylight and at slack tide, the 10,000-ton tanker, Franz Klassen, being assisted through the Chesapeake & Delaware Canal by three tugs, went out of control while attempting to negotiate the 240-ft. channel under the highway span at Chesapeake City, Md., on July 28, crashed into the south pier and brought the bridge down in a mass of wreckage.

No one was killed and only one seaman was injured when the span came to rest, draped over the bow of the ship.

The accident duplicated, both in cause and effect, the one in January, 1939, at St. Georges, Del., at the opposite end of the canal. The St. Georges bridge, however, had a span of only 160 ft. as compared to 260 ft. for the one at Chesapeake City. And whereas the St. Georges bridge, being on the main du Pont Highway was replaced with a 540-ft. tied-arch span high-level bridge (*ENR* Jan. 1, 1942, p. 22), the crossing at Chesapeake City is on a minor route and will probably not fare so well. According to the best advices available, no thought will be given to replacement until after the war. A ferry service is being planned to connect the parts of Chesapeake City on opposite sides of the canal.

Description of bridge

The Chesapeake City bridge, in addition to the main lift span of 260 ft., contained a 120-ft. truss span of six panels at the south end and a 60-ft. span at the north end, the latter being in effect merely a floor through the base of the lift span tower, which had its front legs on the main pier and its back legs on the abutment. The back legs of the south tower are supported at the second panel point of the 120-ft. approach truss. The bridge carried a 24-ft. roadway and, when in raised position, provided a 140-ft. shipping clearance above mean low water.

When the accident occurred the lift span was in raised position. The tanker, swerving to port just before it reached the bridge, crashed through the heavy timber fenders into the south pier and was deflected back into the channel. The impact apparently jarred or knocked the front legs of the south tower off the pier. As the tower fell forward, it pushed the lift span north and pulled it down over the ship. And as the lift span fell it must have pushed the front legs of the north tower shoreward off the north pier. At any rate, this north tower collapsed almost vertically, with the wreckage between the pier and the shore. At the south end, the 120-ft. truss span remained in position, although it was damaged when the tower pulled away from it.

The job of clearing the channel was turned over to the Merritt-Chapman-Scott Corp. by Lt. Col. Harry B. Vaughan, Jr., district engineer, U.S.E.D. at Philadelphia, and two floating derricks of 75 and 100-ton capacity were brought in. First operation is to free the tanker, after which the channel will be cleared by blasting the steelwork into sections small enough to be lifted out with a grab hook.

The Chesapeake City bridge was completed in 1925, being one of five lift bridges designed by Harrington, Howard & Ash and built over the canal at the time this 100-year old 24-ft. wide lock canal was widened and changed into a sea level channel (*ENR* Vol. 95, 1925, p. 702). Three of the bridges are still in service.

Wide World Photo

Wreckage of a drawbridge over the Chesapeake and Delaware Canal lies across the bow of an oil tanker which crashed into the structure. Both of the 200-ft. towers fell into the canal.

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States get approval for bituminous roads

Three state highway departments last week reported receiving certificates of necessity for use of bituminous materials for construction of 20 separate road projects.

Such certification is necessary under recent extension of the Public Roads Administration's control over bituminous materials (*ENR* July 9, p. 68).

Thomas H. Cutler, Kentucky state highway engineer, said that nine repair and improvement jobs on strategic highways or access roads to military and industrial projects will proceed at a cost of more than $400,000; the Pennsylvania department of highways called for bids for a group of projects on roads to cost about $3,304,000, and the Michigan state highway department will soon start surveys for eight additional projects estimated to cost $2,269,200.

Arkansas plans fight to save Red River bridge

The Arkansas State Highway Department said last week it was prepared to spend $60,000 in an attempt to save the Lafayette County approach of the Garland City bridge from cut-ins by the Red River. The river has cut a deep hole between the "Cotton Belt Route" RR bridge and the highway bridge on Route 82.

A revetment mattress will supplement and replace partly completed bank protection work which was abandoned because recent floods cut back the bank. A riprap layer 30-in. thick with an average width of 50 ft. will be placed from the top of the new bank to the revetment mattress. The work will extend approximately 450 ft. up-stream and 500 ft. downstream from the bridge approach.

Similar protective work has been undertaken at the Arkansas River bridge north of Pine Bluff. Another job will start soon at the Arkansas River bridge linking Van Buren and Fort Smith.

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Denison Dam turbines begin operation

Turbines in the power plant on the Red River at Denison, Tex., where construction of a huge dam is under way, began turning July 28 as first water poured through conduits. Two cofferdams turned the river from its bed to permit construction workers to complete an embankment over the river section of the $50,000,000 project.

Work in now in progress on the paving of the spillway a quarter mile south of the dam proper.

OBITUARY

Edward A. Miller, 89, who was chief engineer of the Department of Parks of the city of New York from 1898 until 1920, died July 28 at New Rochelle, N. Y. His home was in Larchmont, N. Y. Mr. Miller had been for 52 years a member of the faculty of Cooper Union. Under his direction, Riverside Drive, Manhattan, was widened and improved; the Harlem River Driveway in upper Manhattan, was converted from a horse racing course to a modern highway, and he did much in the modernization of Central Park.

Goold Taylor Butler, 82, retired civil engineer who served the late Henry M. Flagler in the construction of the Florida East Coast Railway, died Aug. 1 at St. Augustine, Fla., where he had made his home for many years.

Lt. Col. J. M. Reilly, of Omaha, Nebr., executive assistant to the U. S. Division engineer at Omaha, died July 23, at Fitzsimons General Hospital at Denver.

Frank C. Hibbard, 76, railroad construction and hydraulic engineer, died Aug. 2 at Buffalo, N. Y. He was a vice-president of the Great Lakes Dredge and Dock Co. before his retirement in 1926, and had been a member of the Buffalo & Niagara Frontier Port Authority Commission.

Harry O. Hickok, 60, right-of-way engineer for 21 years with the Iowa State Highway Commission, died recently at Ames. He had served as chairman of the Right-of-Way Committee of the American Association of State Highway Officials when that committee was organized.

Walter H. Kurtz, chief engineer for the Sheffield Steel Corp. of Kansas City, Mo., died July 26 in the University of Kansas Hospital. Born in Metropolis, Ill., Mr. Kurtz had served in the Corps of Engineers during the first World War and was decorated by the French Government for his railroad building activities in France.

John C. Connolly, chief engineer of Xenia, Ohio, died at his home in Dayton recently.

Don B. Russell, 49, city engineer of Oskaloosa, Iowa, died July 24.

Woolsey M. Caye, 57, technical engineer in charge of the work of the Louisville Commissioners of Sewerage, died July 29. An employee of the Commissioners of Sewerage since 1908, with the exception of service overseas during the first World War, he had worked for a time in the Miami Valley in Ohio on flood control and was considered an authority on the Ohio Valley watershed.

John M. Evans, 37, assistant manager of the Department of Development, Shawinigan Water & Power Co., died recently at Quebec, Canada.

James G. Gallagher, 67, civil engineer in the sewer department of the City of Cleveland, Ohio, died there July 31.

Ewell B. Miller, retired engineer for the Western Electric Co., died July 27 at Hollywood, Fla.

Charles J. Conlin, 66, retired civil engineer, died July 24 at Lakewood, Ohio. He had been an engineer for the Public Works Administration in Cleveland.

Edward T. Fellows, a pioneer Minneapolis architect and engineer, died recently at the age of 76.

Sanford Monroe Moore, 74, retired building contractor, died July 28, at Atlanta, Ga.

T. A. Griffin, Jr., 35, Dallas road-building contractor, died recently at Greenville, Tex.

Elwin H. Berg, 53, architect of Eveleth, Minn., died recently at Sioux Falls, S. D.

CONTRACTS AND CAPITAL

ENGINEERING CONSTRUCTION volume for the week, $163,973,000, is 37 percent below the high total of a week ago, and 30 percent under the volume reported for the corresponding 1941 week.

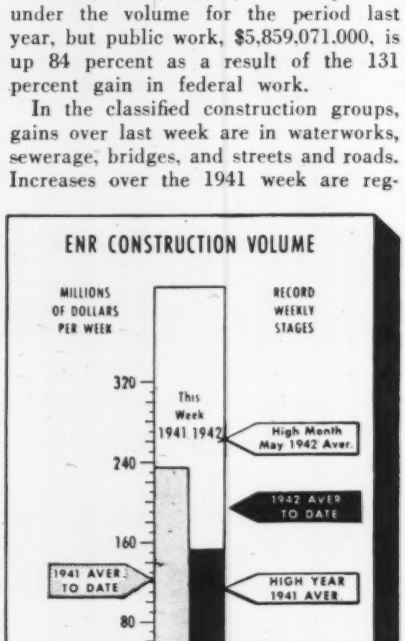
Public construction is 36 percent lower than a week ago, and is 27 percent below a year ago. Private work is 44 and 60 percent lower, respectively, than last week and last year.

The current week's construction brings 1942 volume to $6,270,793,000, an increase of 56 percent over the total for the 32-week period last year, and 7 percent higher than the total reported for the entire year 1941. Private construction, $411,722,000, is 51 percent under the volume for the period last year, but public work, $5,859,071,000, is up 84 percent as a result of the 131 percent gain in federal work.

In the classified construction groups, gains over last week are in waterworks, sewerage, bridges, and streets and roads. Increases over the 1941 week are registered in waterworks, sewerage, commercial building and large-scale private housing, and streets and roads.

New capital for construction purposes for the week totals $8,375,000. This compares with $343,350,000 for the corresponding week last year. The current week's new financing is made up of $2,625,000 in state and municipal bond sales, and $5,750,000 in corporate security issues.

New construction financing for the year to date, $9,508,625,000, is 78 percent above the $5,350,625,000 reported for the 32-week period a year ago.



CONTRACTS

(Thousands of dollars)

	Week Ending Aug. 7 1941	July 30 1942	Aug. 6 1942
Federal	$196,803	$234,878	$146,380
State & Municipal	16,296	10,034	9,319
Total public	$213,099	$244,912	$155,699
Total private	20,482	14,888	8,274
TOTALS	$233,581	$259,800	$163,973
Cumulative 1942	(32 weeks)		$6,270,793
1941	(32 weeks)		$4,033,647

Note: Minimum size projects included are: Waterworks and waterways projects, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	Cumulative 1941 32 weeks	1942 32 weeks
NON-FEDERAL	$953,036	$541,727
Corp. Securities	281,775	163,784
State & Mun.	310,130	166,824
U.S.H.A. loans	30,399	.....
R.E.A. loans	100,500	.....
R.F.C. loans	67,232	128,419
Fed.-Aid—Highways	163,000	82,700
FEDERAL	$4,397,589	$8,966,898
TOTAL CAPITAL	$5,350,625	$9,508,625

ENR INDEX NUMBERS

		1913	1926
Index Base = 100			
Construction Cost	Aug. '42	281.61	135.37
Building Cost	Aug. '42	225.39	121.84
Volume	July '42	736	323

FHA MORTGAGES

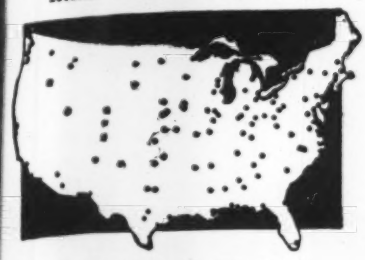
	Week Ending Aug. 2 1941	July 25 1942	Aug. 1 1942
Selected for appraisal			
Title II	$23,349	$5,871	$5,707*
Title VI	$3,493	$14,805	$12,449*

*Subject to revision.

CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York
ELSIE EAVES, Manager *SCOTT McLEOD, Statistician*
(Daily service also available—Write for details)

Location of ENR Correspondents



Symbols and Abbreviations Include

♦ Federal Government
† Project of $500,000 or over
ENR Engineering News-Record
CD Engineering News-Record Construction Daily
A-E-M Architect — Engineer-Management type of contract.

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger: water supply, earthwork, waterworks, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Named in order of Listing)

Water Supply — Unclassified
Sewers, Waste Disposal — Latin America
Bridges, Grade Cross'gs — Public Buildings
Streets & Roads — Commercial Buildings
Earthwork, Waterways — Industrial Buildings

Stages Reported

PROPOSED: (except Streets & Roads):

BIDS ASKED (new announcements only. For full calendar, see also preceding issues of ENR):

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Note: To comply with censorship requirements, addresses on some reports are being generalized. Data which would reveal the purpose of the improvements and the size are withheld. The name of contractor and general area are reported.

WATER SUPPLY

PROPOSED WORK

†**Ind., Fort Wayne**—Bd. P. Wks., R. G. Beams, chn., City Hall, bids soon, 18,000 ft. 12- to 24-in. watermains Clay, Hanna and Wayne Sts. $177,712. **FWA.**

†**Ind., Charlestown**—Town Bd., E. Orman, chmn., received no bids July 20, watermain. $119,000. **FWA.** CD 7/13—ENR 6/18.

Ia., Cumberland—Aug. 7 to vote on WW impvts., piping, new well, pump, house. $15,000. J. Eblen, mayor.

★**La., New Orleans**—A. G. Moffet, secy. Water Bd., water sys. exten. $510,829. Applied for FWA funds. A. B. Wood, 526 Carondelet St., engr.

†**Mass., East Longmeadow**—Federal Wks. Agency, 99 Chauncy St., Boston, 13,000 ft. 12 in. main connecting Carroll St., Springfield, $50,000. Mass. 19-168. Tighe & Son, 189 High St., Holyoke, Mass., engrs. CD 7/23—ENR 7/30.

†**S. C., Union** — Union Municipal Electric Light & Waterworks Comn., M. G. Howe, plant supt., Union, 6½ mi. c.i. pipeline from Broad River to Union, incl. Diesel engine force pumps. $165,000. **FWA.**

★**Tex., Killeen**—B. C. McGregor, city secy., water and sewerage facilities. $889,100. Applied to FWA. F. J. Von Zuben, 1606 Mistletoe Blvd., Fort Worth, engr.

†**Pacific Northwest** — U. S. Eng., Textile Tower, Seattle, Wash., water sys.

Ont., South March—Dominion Govt., Ottawa, water tank, mains, $25,000. Dpt. Natl. Defense, Ottawa, engr.

BIDS ASKED

Bids Asked August 12

†**Md., Hyattsville** — Washington Suburban Sanitary Comn., Hamilton St., 4,400 lin. ft. 4- to 8-in. c.i. watermain and 3,500 ft. 8- to 15-in. vitr. sewers. H. R. Hall, Hyattsville, ch. engr.; adv. ENR 8/6.

Bids Asked

†**Rhode Island**—U. S. Eng., 819 Industrial Trust Bldg., Providence, c.i. watermains. Over $15,000.

†**Texas** and **Oklahoma**—U. S. Eng., 231 W. Main St., Denison, Tex., 4 elevated steel storage water supply tanks, Inv. 257-43-11, over $15,000 ea.; installing 4 water supply pump sta., rein.-con. ground storage tanks, Inv. 257-43-11, over $15,000 ea. Plans deposit $50 for ea. project.

LOW BIDDERS

Calif., Antioch—City, City Hall, July 27, 1 m.g. redwood storage tank, from B. A. Howkins & Co., 1723 Webster St., Oakland, **$29,897.** CD 7/16—ENR 1/8.

†**Okla., Choteau**—W. A. Crockett, town clk., water facilities, Okla. 34-133, from O. M. Drake, Muskogee, **$96,261.** Est. $90,000. **FWA.** CD 7/15—ENR 4/9.

CONTRACTS AWARDED

†**Alabama**—U. S. Eng., 306 U. S. Courthouse, Nashville, Tenn., water and sewerage systems, Lawrence Co. to Sullivan, Long & Hagerty, Bessemer. **$100,000-$500,000.**

†**Arizona**—U. S. Eng., Albuquerque, N. M., water and sewerage systems, to J. R. Stewart Constr. Co., Borger, Tex., **$100,000-$500,000.**

†**Arkansas**—U. S. Eng., P. O. Box 97, Memphis, Tenn., water pumping, storage and treatment plant, Lawrence Co., to F. Micklish and J. T. Fite, Jonesboro. **$100,000-$500,000.**

†**Arkansas**—U. S. Eng., P. O. Box 97, Memphis, Tenn., water distr. and sewerage sys., Lawrence Co., to L. O. Brayton & Co., Dyersburg, Tenn., **$100,000-$500,000.**

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, automatic vacuum type chlorinators, San Francisco Co., to A. C. LoPrest Co., 560 7 St., San Francisco, under **$50,000.**

★†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, water supply sys., to Western Well Drilling Co., 522 W. Santa Clara St., San Jose, under **$50,000.** Awarded 7/29.

★†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, water supply sys., to Western Well Drilling Co., 522 W. Santa Clara St., San Jose, under **$4,000,000.** Awarded 7/29.

†**Delaware**—U. S. Eng., Penn Mutual Bldg., Phila., Pa., water distr. sys., New Castle Co., to George & Lynch, Delaware Trust Bldg., Wilmington, under **$50,000.**

†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, water supply sys., to McGuire Plumbing Corp., 85 N.E. 62 St., Miami. **$50,000.** Awarded 7/21.

†**Indiana**—U. S. Eng., Federal Bldg., Louisville, Ky., water supply and distr. sys., Jackson Co. to Birmingham Contg. Co., Birmingham, Mich. **$100,000-$500,000.**

†**Iowa**—U. S. Eng., Clock Tower Bldg., Rock Island, Ill., water and sewer distr. sys., Polk Co., to Van Dyke Plumbing & Heating Co., 929 6 St., Des Moines, **$50,000-$100,000.**

Ia., Oelwein—H. J. Finders, city clk., WW impvts., reservoir, pump house, to J. Lippert, Oelwein., **$31,100.** Bids 7/24. CD 6/24—ENR 7/2.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, elevated water tanks and service pump station, Vernon Parish, to McMicheal & Welch, Shreveport. **$100,000-$500,000.**

†**Mich., Detroit**—Bd. Water Comrs., Water Board Bldg., 735 Randolph St., 72 in. watermain, Meyers Rd., Contr. DM 2, to F. J. Knight Co., 23845 Sherwood Ave., Centerline, **$233,099;** 72 in. watermain, Belton Ave. and Meyers Rd., Contr. DM 1, to Gargaro Co., Inc., 40 E. Seven Mile Rd., Detroit, **$220,000,** both Docket Mich. 20-185. **FWA.** CD 6/16—ENR 6/23.

†**N. H. Portsmouth**—Federal Works Agency, 120 Boylston St., Boston, Mass., water sys., 27-901, Contr. 2, pump stations and gravel packed wells to R. E. Chapman Co., High St., Oakdale, Mass. **$26,276.** Bids 7/31. CD 7/20—ENR 7/23.

★†**N. C., Wilmington**—City, water filtration plant, to A. H. Guion, Kinney Bldg., Charlotte. **$600,451. FWA.**

†**Pennsylvania**—U. S. Eng., Standard Oil Bldg., Baltimore, Md., water service connection, Cumberland Co., to Riverton Consolidated Water Co., Lemoyne, **$50,000-$100,000.**

†**Tennessee**—U. S. Eng., 306 U. S. Courthouse, Nashville, water distr. and sewage collection sys., Montgomery Co., to Drainage Contractors, Inc., Clarkesville, **$50,000-$100,000.**

†**Tennessee**—U. S. Eng., P. O. Box 97, Memphis, installing waterline, Shelby Co. to Memphis Light, Gas and Water Div. of City of Memphis, Memphis, under **$50,000.**

†**Texas** — U. S. Eng., 231 W. Main St., Denison, water and sewage systems, Dallas Co. to Parrott-Oldt Co., 403 S. Haskell St., Dallas. Under **$50,000.**

†**Texas**—U. S. Eng., Albuquerque, N. M., extending city water line, Reeves Co. to Smith Contg. Co., Odessa. Under **$50,000.**

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, drilling, casing, developing deep water supply wells, concrete storage tank, No. 359-42-551, to Layne-Texas Co., 6931 Harrisburg St., Houston, under **$50,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, water distr. lines, facilities, Spec. 42-185, to L. Christy, Builders Exch. Bldg., San Antonio, under **$50,000.** Bids about 7/24, awarded 7/25. CD 7/20.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, drilling water wells, Matagorda Co., to Layne-Texas Co. Ltd., 6931 Harrisburg St., Houston, under **$50,000.**

†**Tex., Bastrop**—City, W. Rogers, mayor, WW expansion, imprvs., Tex. 44-472, to Nelson, Hafner & H. Nodland, Starbuck, Minn., under **$50,000. FWA.** Garrett Eng. Co., 3504 Audubon St., Houston, engr.

†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, drilling water well, Tooele Co., to Rosscoe Moss Co., 4360 Worth St., Los Angeles, Calif., under **$50,000.**

†**Virginia**—U. S. Eng., 415 Post Office & Courthouse Bldg., Norfolk, concrete reservoirs, Warwick Co., to Preload Co., 82 W. Dedham St., Boston, Mass. **$50,000-$100,000.**

†**Washington**—U. S. Eng., Textile Tower, Seattle, water tanks, Spokane Co., to H. Hagman, Box 752, Spokane. **$100,000-$500,000.**

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, water distr. sys., Spokane Co., to R. L. Moss, Zenith, **$50,000-$100,000.**

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, water distr. sys., to Paine Gallucci, Inc., 1521 S. Grant St., Tacoma. **$50,000-$100,000.**

Que., Cap de la Madeleine—F. Beaumier, municipality clk., 2 artesian wells, to International Water Supply Co., Ltd., Mount Royal Hotel, Montreal. Est. **$20,000.** Bids 7/17. CD 7/15.

Que., Cap de la Madelaine—1½ m.g. concrete reservoir, to Laviolette Const. Co., Ltd., 452 Laviolette St., Three Rivers, Que. **$81,022.** CD 7/15—ENR 7/23.

Que., Farnham—Dominion Govt., Ottawa, Ont., reservoir, Military Training Center, to L. Donolo, 630 W. Dorchester St., Montreal. Dpt. National Defense, Ottawa, Ont., engrs.

SEWERS, WASTE DISPOSAL

PROPOSED WORK

Calif., Fontana — Kaiser Co., Latham Sq. Bldg., Oakland, bids soon, sewage disposal plant, $150,000. Montgomery Co., 306 W. 3 St., Los Angeles, engr.

†**California**—U. S. Eng., Wright Bldg., Sacramento, sewage treatment plant expansion, San Joaquin Co. Clyde C. Kennedy, 604 Mission St., San Francisco, engr. and archt.

Me., Bath—City, Sewer Dpt., exten. sanitary sewers. $62,500. Whitman & Howard, 89 Broad St., Boston, Mass., engrs.

†**Maryland**—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., sanitary sewerage sys., Prince George Co. Perring & Remington, 10 W. Chase St., Baltimore, engrs. and archts.

†**Md., Curtis Bay**—Federal Works Agency, 18 and F Sts. N.W., Wash., D. C., sewage facilities. $444,000.

†**Mass., East Longmeadow**—Federal Works Agency, 99 Chauncy St., Boston, 8 in. pressure sewer and 12 in. gravity sewer main, Mass. 19-169, $15,000; sewage treatment facilities, piping chlorinator and sludge bed equipment, Mass. 19-170, $14,269. **FWA.** Tighe & Bond, 189 High St., Holyoke, engrs. CD 7/23—ENR 7/30.

SEWERS, etc. (Bids Asked Cont'd.)

Mich., Mount Pleasant — Sewage disposal plant sewer extens. $100,000. Consoer, Townsend & Quinlan, 211 N. Wacker Dr., Chicago, Ill., engrs.

†**New York**—U. S. Eng., 120 Wall St., New York, plans by Alexander Potter Associates, 50 Church St., New York, sewage and water supply sys., Nassau Co.

†**N. C., Elizabeth City**—Federal Works Agency, 18 and F Sts. N.W., Wash., D. C., sewer exten. from existing lines, Woodland Park and Albemarle Pl. $14,200 FWA gr.

O., Canton—E. S. Folk, mayor, sewage disposal plant $300,000; storm sewers various sections $150,000. J. A. Shisler, city engr.

Okla., Norman—F. Eoff, city mgr., sewer facilities, sewage disposal plant, $315,000. Applied to FWA. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

★**Tex., Corpus Christi**—A. S. McCaughan, mayor, storm sewers, $953,800. A. McCormick, Corpus Christi, engr. Applied to FWA.

Wis., Lena—Sewage treatment plant, sewers. $30,000-$40,000. Foth & Boyd, Green Bay, engrs.

Que., Magog—A. Girard, municipality, clk., sewerage sys. addn. $25,000. Crepeau & Cote, 45 N. Wellington St., Sherbrooke, engrs.

Ont., St. Catharines—Twp. of Grantham, 148 King St., bids soon sewerage sys., for York, Mildred, Margery, Perry and Johnson Sts. $69,500. D. G. Ure, 24 Queen St., engr.

Ont., Weston—H. G. Mussen, municipality clk., storm and domestic sewers. $100,000. James, Proctor & Redfern, Excelsior Bldg., Toronto, engrs.

BIDS ASKED

Bids Asked August 10

★†**Md. Towson**—Comrs. Baltimore Co., Courthouse, 28,000 ft. 6- to 24-in. vitr. clay and concrete gravity sewer lines, Sparrows Point Section. $620,000. **FWA.** CD 7/20—ENR 7/23.

Bids Asked August 11

†**Va., Portsmouth**—City, sewerage sys. addn., 6,700 ft. 10-to 20-in. c.i. suction main, Douglas Ave. **FWA.**

Bids Asked August 12

La., New Orleans—Sewerage & Water Bd., 526 Carondelet St., 2,120 lin. ft. 36 in. sewers, etc., Odin and Spain Sts., Contr. 134-S. Plans deposit $5.

Bids Asked August 19

N. Y., Deer Park—Dpt. Mental Hygiene, Albany, sewage pump. station, Contr. 1, Edgewood State Hospital, $98,000. Adv. ENR 8/7.

Bids Asked

†**Texas** and **Oklahoma**—U. S. Eng., 231 W. Main St., Denison, Tex., 4 sewage treatment plants, Inv. 257-43-11. Over $25,000 ea. Plans deposit $50 for all.

LOW BIDDERS

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, July 25, sewage disposal plant exten., Inv. 1942-35, from Mid-State Constr. Co., Alexandria. CD 7/20.

CONTRACTS AWARDED

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, sewer and water distr. sys., Kern Co., to Edward R. Siple Co., 2545 San Fernando Rd., Los Angeles. Under **$50,000.**

†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, sewage treatment plant, Palm Beach Co., to Eric T. Clauson, 1515 12 St. N., St. Petersburg. **$100,000-$500,000.**

†**Indiana**—U. S. Eng., 612 Federal Bldg., Louisville, Ky., sewage treatment plant, Jackson Co., to Buesching Bros. Constr. Co., 213½ E. Berry St., Fort Wayne, **$100,000-$500,000.**

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, incinerators, Rapides Co., to J. A. Harper, Crowville, **$50,000-$100,000.**

†**New York**—U. S. Eng., 120 Wall St., New York, N. Y. electrical work for sewage plant, Orange Co., to Field Electric Co., Port Chester, under **$50,000.**

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, storm and sanitary sewers, water lires, Albany Co., to B. Trimpoli, 251 Altamont Ave., Schenectady. **$100,000-$500,000.**

★†**Ohio**—U. S. Eng., Ravenna, sewage disposal plant, imhoff tanks, trickling filter, secondary treatment sys., sludge drying beds, to National Constr. Co., 12002 Superior Ave., Cleveland. Est. under **$1,000,000.** Jennings & Lawrence, 12 N. 3 St., Columbus, engrs.

†**Ohio**—U. S. Eng., Wright Field, Dayton, sewer and watermain extens., to A. W. Burns Constr. Co., 424 Woodland Ave., Columbus. Est. **$50,000-$100,000.**

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, sanitary sewerage sys., Mayes Co., to L. C. Douglas, Springfield, Mo., under **$50,000.**

†**South Dakota**—U. S. Eng., Administration Bldg., Fort Peck, Mont., sewage treatment plant, Fall River Co., to L. M. Feller Co. and W. C. Graus, Hastings, Minn., **$50,000-$100,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, sewage treatment plant, Tex. 42-146, to R. H. Folmar, Austin, under **$50,000.** CD 6/25.

†**Tex., Houston**—Harris Co., Fresh Water Dist. 2, c/o G. H. McCormick, 7031 Foster St., disposal plant, Tex. 41-448, to Tellepsen Const. Co., 3900 Clay St., Houston. **$60,000. FWA.** Awarded 7/22. CD 2/18—ENR 2/26.

†**Texas**—U. S. Eng., Fort Sam Houston, sanitary sewer collecting lines, facilities, Spec. 42-185, to L. Christy, Builders Exchange Bldg., San Antonio, **$50,000-$100,000.** Bids about 7/24, awarded 7/25. CD 7/20.

†**Va., Portsmouth**—A. S. Owens, city mgr., sewerage sys., exten., to Meade Constr. Co., 6101 Penn Ave., Pittsburgh, Pa., **$422,700. FWA.** CD 6/15—ENR 6/18, under LB.

†**Washington**—U. S. Eng., Textile Tower, Seattle, sanitary sewerage sys., to Valley Constr. Co., 4354 Henderson St., Seattle, **$50,000-$100,000.**

†**Washington** — U. S. Eng., Textile Tower, Seattle, sewerage sys., Spokane Co., to K. L. Goulter, Box 135, Spokane, over **$100,000.**

Que., Thetford Mines—Sewer construction, day labor. **$30,000.** A. Laflamne, Town Hall engr.

Que., Valcartier (Quebec)—Dpt. National Defense, Ottawa, Ont., addnl. pump. station for sewage, Military Camp, to Magliore Cauchon, Ltd., 325 de la Salle St., Quebec City, about **$35,000.**

BRIDGES, GRADE CROSSINGS

PROPOSED WORK

N. Y., Olean—Rebuilding 3 vehicular bridges at Homer, Brooks and Alder Sts. $25,000. C. H. Weatherell, Jr., city engr.

O., Canton—E. S. Folk, mayor, repairing bridges. $130,000. J. A. Shisler, city engr.

BIDS ASKED

Bids Asked August 11

Iowa—State Hy. Comn., Ames, 2 rein.-con. box culvert extens., etc., U.S. 34, Des Moines Co.; 1 rein.-con. box culvert exten., Iowa 25, Guthrie Co.; one twin 10x10x154 ft. rein.-con. box culvert, U.S. 75, Crescent Twp., Pottawatamie Co. F. R. White, Ames, ch. engr.

Bids Asked August 12

Louisiana—Dpt. Hys., Baton Rouge, rein.-con. box culvert, concrete paved approaches, total length 0.021 mi., on S. P. 12-08-08, FAP S.N. FAP 390-A (1) Bayou Blue Ridge on Elton Kinder Hy., State Route 7, Jefferson Davis Parish. W. Prescott Foster, dir. CD 7/28—ENR 7/30, under Roads.

†**Tennessee**—Tennessee Valley Auth., Knoxville, steel superstructure, concrete floor slab, curbs, deck portion of abutments, of Dandridge Bridge over French Broad River, Dandridge, Proj. 20-4081; adv. ENR 8/6.

Bids Asked August 14

Kentucky—Dpt. Hys., Frankfort, five 50 ft. concrete and one 64 ft. concrete span bridge type overhead for I.C. Tracks and Old U.S. 31-W at Tip Top, DA-WR 8; SP 47-479, Hardin Co.

Bids Asked August 18

Indiana—State Hy. Comn., S. G. Hadden, chn., Indianapolis. 4 span 160 ft. rein-con. girder bridge over creek, north of Loogootee, 3 span, 60 ft. rein-con. slab span over Doans Creek, Rd. 45, both Davies and Greene Counties; 30 ft. rein.-con. arch span over Duck Creek, U. S. Rd. 40, and 80 ft. rein.-con. arch span over Montgomery Creek, U. S. 40, both Henry Co.; 30 ft. rein.-con. arch span over Little Patoka Creek, State Rd. 64, Crawford Co.; 60 ft. rein.-con. span over Six Mile Creek, State Rd. 40, Hancock Co. R. Bower ch. engr.

LOW BIDDERS

Ill., Chicago—Dpt. P. Wks., City Hall, July 27, altering fixed bridge, South Western Ave., from W. J. Howard, Inc., 35 E. Wacker Dr., **$484,945.** Est $500,000. CD 7/21.

★**Maryland**—State Roads Comn., Baltimore, July 28, dual structures over Penna R.R. near Short Lane, Boothby Hill Rd., etc., Contr. H-269-1-466, Harford Co., from F. Carozza & Son, Inc., 7 W. 25 St., Baltimore, **$597,540.** CD 7/20—ENR 7/23.

CONTRACTS AWARDED

Arkansas—State Hy. Dpt., Little Rock, rein.-con. bridge Hy. 71, Greenwood, to Pioneer Constr. Co., Malvern, **$29,307**; bridge, paving Flying School Rd., Blytheville, to Forcum-James Constr. Co., Dyersburg, Tenn., **$185,015.** Bids 7/30, awarded 7/30. CD 7/22.

†**North Carolina**—U. S. Eng., 308 Custom House, Wilmington, repairs, addns. fender sys. at railroad bridge, Carteret Co., to J. D. Orrell, Wilmington, under **$50,000.**

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, trestles, Charleston Co., to R. L. Morrison & Sons, McClellanville, under **$50,000.**

Wash., Bremerton—State Hy. Dpt., Olympia, timber guard rail and floor sys. on Port Washington Narrows Bridge, to D. Nygren, Lloyd Bldg., Seattle, **$68,550.** Bids 7/28. CD 7/15.

STREETS AND ROADS

BIDS ASKED

Bids Asked Au...

Ill., Morrison—Whiteside... 2-2-1 MFT, 11-2-1 and ... 2-1, MFT, 4.452[illegible] mi. Sect. ... mi. Sect. 2-2-1. MFT. ... Baker, Centennial Bldg. ... country roads and city ...

Iowa—State Hy. Comn. ... paving, grading, storm ... WI-(1) on U.S. 34, Des M... nance resurfacing 2.5 mi. ... Iowa 199, 2.3 mi. Iowa 20... 7.8 mi. Iowa 202, 2.1 m... piles on U.S. 218 and Io... Co.; 7 mi. Iowa 190, 4.5 ... mi. Iowa 283, 5.1 mi. I... on Iowa 187 and 159, ... 12.3 mi. Iowa 273, Davis ... stockpiles on U.S. 6 and Io... 4.7 mi. Iowa 137, 2.6 mi. ... Iowa 308, Mahaska Co.; 1... Monroe Co.; 18.3 mi. Iowa ... 85, 28.7 mi. Iowa 146, ... Poweshiek Co.; 5.4 mi. Io... Iowa 210, 1 mi. Iowa 211, ... Story Co.; 4 mi. Iowa 96, ... 2.1 mi. Iowa 229, 5.4 mi. ... Co.; 20.8 mi. Iowa 16, 4.9 ... mi Iowa 114, 2.8 mi Iow... Co.; stabilized or crushed ... 3,400 cu. yd. U.S. 20 and ... Co.; erosion control W[illegible]... White, Ames, ch. engr.

South Dakota—State Hy. Comn., Pierre, resurfacing 21.113 mi. FAPs 171E and pt. 171D, McPherson and Brown Counties; 20.27 mi. FAPs 181F and D. Dewey Co., 8.967 mi. FAP 118C ,McCook Co.; 11.981 mi. FAP 188F, Miner and Lake Counties; 42.483 mi. FAPs 192A and 192B, 273 and pt. 63, McPherson Co.; 28.929 mi. FAPs 242A and E. Meade Co.

Bids Asked August 14

Wisconsin—State Hy. Comn., Madison, grading, concrete paving, gravel surface, curbing, guttering, concrete sidewalks, ... mi. Menomonie-Eau Claire Rd., U.S. Hy. ... (Belt Line) Rd., FAP SN-FAP 281-(6)4, Contr. 1, Eau Claire Co.

Bids Asked August 18

Washington—State Hy. Dpt., Olympia, non-skid seal surfacing 41.64 mi. State Rd. 4, Tenasket to Republic, Okanogan and Ferry Counties; surfacing 3.47 mi. State Rd. 5, Cusick, N., Pend Oreille Co.; stockpiling and bituminous surfacing 8.1 mi. State Rd. 5, Blueslide to Tiger, Pend Oreille Co.

Bids Asked

Iowa—State Hy. Comn., Ames, rejected bids July 28, imprv. 46.4 mi. M 3215, 4.6 mi. M 3261, 29.2 mi. N 4236, 4.9 mi. M 4237, and 18.6 mi. M 4238. F. R. White, Ames, ch. engr. CD 7/20.

Washington—State Hy. Dpt., Olympia, rejected bids July 28, imprv. 2.95 mi. access roads, Franklin Co. CD 7/15.

LOW BIDDERS

Arizona—State Hy. Comn., Phoenix, July 24, imprv. 4.6 mi. Luke Field-Glendale Hy. from Martin Constr. Co., P. O. Box 344, Tucson. $59,945. CD 7/14—ENR 7/16.

★**California**—State Div. Hys., Los Angeles, July 30, imprv. 3.5 mi. Rosecrans St. and Mission Valley Rd., San Diego Co., from R. E. Hazard & Sons, P. O. Box 1510, San Diego, $715,708*** 3.7 mi. Harbor Dr., San Diego Co., from R. A. Bell, Eureka, $453,919***area between Madison St. and east city limits, Los Angeles Co., from Basich Bros., 20,530 S. Normandie Ave., Torrance, $343,950. CD 7/10—ENR 7/16.

California—State Div. Hys., Sacramento, July 29, imprv. 1.9 mi. Contra Costa Co., from N.M. Ball Sons, P. O. Box 404, Berkeley, **$323,146.** CD 7/10—ENR 7/16.

Connecticut—State Hy. Dpt., State Office Bldg., Hartford, July 30, 1100 ft. bituminous macadam surfacing, Stratford-Bridgeport, from Pascone Bros., Inc., 73 Steuben St., Bridgeport. $27,568. CD 7/27.

Ill., Aurora—City, July 20, paving 0.304 mi. Sect. 20-CS, from Geneva Constr. Co., Aurora. $40,230. CD 7/14.

★**New Jersey**—S. Miller, Jr., comr. State Hy. Dpt., July 27, imprv. 3.515 mi. Sect 2, Burlington Co., from Franklin Contg. Co., 25 Washington Pl., Newark, **$708,758.** CD 7/16—ENR 7/23.

New York—A. W. Brandt, supt. P. Wks., Albany, July 31, imprv. 3.99 mi. Jefferson Co., from Dale Eng. Co., 404 Court St., Utica, $372,743***1.29 mi. Kings Co., from Sicilian Asphalt Paving Co., 41 Park Row, New York, N. L., $133,750***0.81 mi. Nassau Co., from Andrew Weston Co., Inc., Woodmere, L. I., $158,426***0.39 mi. Kings Co., from Barry Constr. Corp., 226-06 139 Ave., Laurelton, $127,354***1.92 mi. Nassau Co., from Ralph Jannotta, Glen Cove Rd., Roslyn. $182,925. CD 7/21—ENR 7/23.

Texas—D. C. Greer, engr. State Hy. Dpt., Austin, July 24, imprv. 1.64 mi. Potter and Carson Counties, from Bell & Braden, Herring

STREETS, etc. (Low Bidders, Cont'd.)

Hotel Bldg., Amarillo, **$115,320**, est. $120,000; 2.593 mi. Tarrant Co., from C. M. Campbell, Smithville, **$34,391**, est. $40,000. Received no bids July 24, imprv. 7.097 mi. Dallas Co.; 2.212 mi. Orange Co. CD 7/14—ENR 7/16.

†Texas—U. S. Eng., Fort Sam Houston, roads, asphalt paving, concrete sidewalks, Spec. 42-194, from E. E. Elliston & A. L. Gray, Mineral Wells. **$50,000-$100,000.**

†Virginia—At office H. J. Spelman, dist. engr., Public Roads Admin., Winder Bldg., 17 and F Sts., N.W., Wash., D. C., July 31, Proj. VA DA WR-8 Paving 25, War Department Bldg., Road Networks, Arlington Co., from Corson & Gruman, 33 and K Sts., N.W., Wash., D. C. $362,810. CD 7/24.

CONTRACTS AWARDED

★**†Alabama**—U. S. Eng., 306 Courthouse & Customhouse, Nashville, Tenn., paving, Lawrence Co., to H. E. Wolfe and J. B. Michael & Co., Courtland, **$1,000,000-$5,000,000.**

★**†Alabama**—U. S. Eng., 306 Courthouse, Nashville, Tenn., access roads, drainage sys., Lawrence Co., to T. M. Strider & Co., Cotton States Bldg., Nashville, Tenn. **$500,000-$1,000,000.**

★**†Arizona**—U. S. Eng., Albuquerque, N. M., roads, highways, concrete and asphalt paving, Coconino Co., to Arizona Constructors, Home Builders Bldg., Phoenix, **$1,000,000-$5,000,000.**

★**†Arizona**—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., clearing, grading, paving, Mohave Co., to Morrison-Knudsen Co., Inc., 411 W. 5 St. and M. H. Hasler, 8497 Fountain Ave., both Los Angeles, Calif., **$500,000-$1,000,000.**

Arkansas—State Hy. Dpt., Little Rock, to Pine Bluff Sand & Gravel Co., foot of Nebraska St., Pine Bluff, bank protection work Red River, **$64,290*****to Pioneer Constr. Co., Malvern, imprv. 17.663 mi. Hys. 11 and 38, **$32,641**, 15.3 mi. Hy. 16, **$37,278**, gravel surfacing Hy. 79, **$25,389*****to Weymouth Constr. Co., Milwaukee, Wis., 0.738 mi. Flying School Rd., **$38,730*****to S. M. Dixon, Warren, 17.4 mi. Hys. 97 and 8, **$25,948*****to D. F. Jones Constr. Co., Southern Natl. Bldg., Little Rock, Helena, Aero Tech Rd., **$62,969.** Grand total **$287,245.** Gravel surfacing 15.7 mi. Hy. 25, own forces. Rejected bids 12.6 mi. Hy. 77. Bids 7/30. CD 7/21—ENR 7/23.

†Arkansas—U. S. Eng., Gay Bldg., Little Rock, road to E. E. Barber, Fort Smith. Bids 6/25. CD 6/10—ENR 6/18.

Conn., Hartford—Bd. Contr. & Supply, 550 Main St., 93,000 sq. yd. sheet asphalt 9,745 cu. yd. concrete on streets, to Edw. Balf Co., 173 State St., **$77,960.** Bids 7/21.

†Delaware—U. S. Eng., Penn-Mutual Bldg., Phila., Pa., roads, New Castle Co., to Standard Bitulithic Co., 50 Church St., New York, N. Y., under **$50,000.**

†Florida—U. S. Eng., Courthouse & Postoffice, Jacksonville, clearing, grubbing, paving, Polk Co., to Sutton Constr. Co., Lakeland, under **$50,000.**

★**Florida**—State Hy. Dpt., Tallahassee, paving 83 mi. hy. and 23 bridges, on Overseas Hy. between Miami and Key West, own forces, **$3,000,000.** J. H. Dowling, hy. engr. Contract CD 3/24 and ENR 3/26 rescinded. Bids 7/16. Dade Co. rejected. CD 7/27—ENR 7/30.

†Florida—U. S. Eng., Courthouse & Postoffice, Jacksonville, clearing, grubbing, grading, draining, Clay Co., to B. B. McCormich & Sons, Inc., Wright Contg. Co., Inc., and James Constr. Co., Ocala. **$100,000-$500,000.**

†Georgia—U. S. Eng., Courthouse, Mobile, Ala., street imprvs., to W. L. Cobb Constr. Co., Bell Bldg., Montgomery, Ala.

Idaho—State P. Wks. Comn., Boise, surfacing 8.6 mi. Jefferson Co., to N. Burggraf, Idaho Falls, **$45,058.** Bids 7/23.

★**Illinois**—Dpt. P. Wks. & Bldgs. Div. Hys., Springfield, imprv. 4.6 mi. Will Co., to Powers Thompson Constr. Co., Joliet, **$558,915.** Bids 7/10, awarded 7/22. CD 7/14—ENR 7/16, under LB.

†Kentucky—U. S. Eng., Federal Bldg., Louisville, constructing 34,450 sq. yd. concrete or bituminous, about 5,400 ft. long, to George M. Eady Co., 340 Byrne St., Louisville.

†Maine—U. S. Eng., Park Square Bldg., Boston, Mass., paving, Waldo Co., to W. Hinman, Inc., North Anson, **$50,000-$100,000.**

†Maryland—U. S. Eng., Standard Oil Bldg., Baltimore, access road, Harford Co., to Thomas M. Flanaghan, American Casualty Bldg., Reading, Pa., **$100,000-$500,000.**

†Massachusetts—U. S. Eng., Park Square Bldg., Boston, Mass., gravel roads, 175-43-neg 22, to McCarthy Bros., 52 Driscoo St., Peabody, Mass.

★**Minnesota** — State Hy. Dpt., St. Paul, imprv. 3.5 mi. S.P. 6216-02, TH 51-125 and 2.2 mi. Projects 27-516-01 and 62-511-01, to A. Guthrie & Co., 424 Endicott Bldg., Fielding & Shepleu, 1258 Bohn Ave., and McCree & Co., 918 New York Bldg., all St. Paul, **$412,808** and **$99,457** respectively. Bids 7/24. CD 7/7—ENR 7/9.

†Minnesota and South Dakota—U. S. Eng., Postoffice & Customhouse, St. Paul, bituminous road surfacing, Traverse Co., Lac Qui Parle and Chippewa Counties, Minn. and Robert Co., S. D., to Bernard S. Andrus, Richmond and S. Concord Sts. S., St. Paul.

★**†Mississippi**—U. S. Eng., Courthouse, Mobile, Ala., grading, paving, drainage, Jones Co., to Chandler Bros., Inc., Virgilina, Va., **$1,000,000-$5,000,000.**

N. J., Kearny (br. Arlington)—Concrete sidewalks, curbing, concrete repaving, small sewer, drains, to Joseph Nesto & Co., 872 Bway., Newark **$54,500.** A. Brokaw, Town Hall, engr.

New Mexico—B. G. Dwyer, engr. State Hy. Dpt., Santa Fe, imprv. 7.718 mi. Hidalgo Co., to Brown Bros., P. O. Box 1479, Albuquerque, N. M., **$204,606**, est. $280,000; 12.927 mi. San Miguel Co., to R. C. Carrico, Albuquerque, **$88,024**, est. $80,000. Bids 7/29, awarded 7/29. CD 7/20.

†North Carolina—U. S. Eng., 308 Customhouse, Wilmington, roads and drainage sys., New Hanover Co., to Brown Paving Co., Pineville Rd., Charlotte. **$100,000-$500,000.**

†North Carolina—U. S. Eng., 308 Custom House, Wilmington, grading, paving, Dare Co., to L. B. Perry, Elizabeth City, under **$50,000.**

O., St. Clairsville—Belmont Co., repairing hys., Pease and Richland Twps., to Tri-State Asphalt Corp., S. Bway., Martins Ferry, **$42,986.** Bids 7/16. G. C. Travis, co. engr.

†Oklahoma—U. S. Eng., 231 W. Main St., Denison, grading, roads, drainage, to Vilbig Bros. Const. Co., Paris and Bourbon Sts., Dallas. **$100,000-$500,000.** Awarded 7/25.

Pa., Pittsburgh—Comrs. Allegheny Co., R. G. Woodside, controller, 104 Courthouse, imprv. 2 mi. Spring Run Rd., Moon and Findlay Twps., to Osella Constr. Co., 610 Baldwin St., Bridgeville, **$33,430.** (**Correction**-contractor). CD 7/13—ENR 7/16, under CA.

†South Carolina—U. S. Eng., 33 Customhouse, Charleston, paving, Horry Co., to Barger Bros., Mooresville, N. C., under **$50,000.**

†Texas—U. S. Eng., San Antonio, roads, walks, Bastrop Co., to Southern Contg. Co., Austin, under **$50,000.**

†Texas—U. S. Eng., Fort Sam Houston, roads, asphalt paving, hardstanding areas, sidewalks, etc., Spec. 42-177, to Southern States Const. Co., 203 San Jacinto Natl. Bank Bldg., Houston. **$50,000-$100,000.** Additional to CD 7/24—ENR 7/30, under CA.

†Texas—U. S. Eng., Fort Sam Houston, roads, walks, Spec. 42-203, to Southern Constr. Co., 2325 Harris Blvd., Houston, **$50,000-$100,000.**

†Texas—U. S. Eng., San Antonio, roads, walks, Palo Pinto Co., to E. E. Elliston & A. L. Gary, Mineral Wells, under **$50,000.**

†Texas—U. S. Eng., San Antonio, roads, Taylor Co., to Southern States Constr. Co., San Jacinto Life Bldg., Houston, under **$50,000.**

†Texas—U. S. Eng., 231 W. Main St., Denison, grading, paving, culverts, Dallas Co., to Texas Bitulithic Co., 111 Commerce St., Dallas. **$50,000-$100,000.**

†Utah—U. S. Eng., 32 Exchange Pl., Salt Lake City, surfacing roads, Weber Co., to Gibbons & Reed Co., 259 W. 3 St. S., South Salt Lake City. **$100,000-$500,000.**

†Virginia—U. S. Eng., 415 Postoffice & Courthouse Bldg., Norfolk, Va., clearing, grading, drainage, seeding Dinwiddie Co., to Highway Contractors, Inc., 420 Boush St., Norfolk, and to Virginia Asphalt Paving Co., Inc., Petersburg, **$100,000-$500,000.**

West Virginia—State Road Comn., Charleston, imprv. 5.981 mi. Fayette Co., to Keeley Const. Co., Clarksburg. **$183,665.** Bids 7/28. CD 7/21—ENR 7/23.

N. S., Halifax—Dpt. National Defense for Air, Ottawa, Ont., surfacing roads, constructing parade grounds, Y Depot 1, to Standard Paving Maritime, Ltd., Capitol Bldg., **$57,000.**

Quebec—Dpt. Roads, Quebec City, concrete paving 6.2 mi. Arvida-Kenogami Rd. and Hy. 16 in Kenogami, Arvida and Chicoutimi Twp. to Massicotte et Fils, Ltd., 484 Notre Dame St., Cap de Madeleine, **$202,299*****graveling, resurfacing 34 mi. Dolbeau-St. Augustin, St. Ludger de Milot-Passes Daugerenses Rd., Dolbeau, to Delisle & Gagnon, 502 1 Ave., Quebec City, **$79,245*****grading, graveling, bituminous concrete paving 1.6 mi. road leading to Valcartier camp, Valcartier, to Union Quarries & Paving Co., Ltd., 48 2 Ave., Quebec City, **$49,387.** Grand total $330,956.

Que., Quebec City—Province of Quebec, 6½ mi. colonization road, to R. Theberge, 7 Notre Dame St., St. Eleuthere, Ont. **$35,000.**

Sask., Maple Creek—Dpt. National Defense, Ottawa, Ont., surfacing, Militia Training Center, to Dorosz Bros., 3411 McCallum Ave., Regina. **$38,000.**

EARTHWORK, WATERWAYS

PROPOSED WORK

★**†Florida**—U. S. Govt. authorizes construction, 15 ft. channel barge canal, 3 locks, from Yankeetown, on Gulf of Mexico, to Palatka, via St. John's River. $78,000,000.

†Mississippi—U. S. Eng., Postoffice & Courthouse, Vicksburg, flood control dam, Yalobusha Co. Harza Engineering Co., 205 W. Wacker Dr., Chicago, Ill., engr.

N. J., Long Branch—Bulkheads, jetties, repairing 10 old jetties, Elberon Sect. $265,000.

N. Y., Olean—City Council, S. J. Biracree, supt. of streets, repairing washouts, municipal dyke sys. $30,000. C. H. Weatherell, Jr., City Hall, engr.

Tex., Velasco—E. F. Roeller, mayor, levees, drainage, $55,000. Applied to FWA. Garrett Engineering Co., 3504 Audubon St., Houston, engrs.

N. S. Lunenburg—Lunenburg Fdry. Co., Ltd., Lunenburg, breakwater, groynes, etc. $30,000.

BIDS ASKED

Bids Asked August 13

La., Lafayette—Police Jury Lafayette Parish enlarging 86.18 mi. channels, 995,491 cu.yd. dirt.

†Tennessee—U. S. Eng., P. O. Box 97, Memphis, grading for levee protection, Inv. 1092-43-23F.

Bids Asked August 18

†Mississippi—U. S. Eng., U. S. Post Office and Courthouse, Vicksburg, 2,630,000 cu. yd. cut-off channel excav., Inv. 1106-43-30.

LOW BIDDERS

†Calif., Marysville—U. S. Eng., Wright Bldg., Sacramento, July 25, north levee Yuba River from D St. to Valley Meat Co., and north levee from Valley Meat Co. to Western Pacific R.R., from Piombo Bros. & Co., 1571 Turk St., San Francisco, **$213,140.** CD 7/17.

CONTRACTS AWARDED

†California—U. S. Eng., Wright Bldg., Sacramento, grading city dump, Merced Co., to Brown Materials Co., Avenal, under **$50,000.**

†Connecticut — U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., dredging, Fairfield Co., to Lavigne & Smith, Inc., East Providence, R. I., and to J. S. Packard Dredging Co., 1 Court St., Boston, Mass.

†Connecticut — U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., dredging, New Haven Co., to J. S. Packard Dredging Co., 1 Court St., Boston, Mass.

†Indiana—U. S. Eng., 612 Federal Bldg., Louisville, Ky., drainage ditch, Jackson Co., to Ralph Myers Constr. Co., Salem, under **$50,000.**

†Ohio—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., installing conduits under roads and railroads, Trumbull Co., to Armco Railroad Sales Co., Midland Bank Bldg., Cleveland, under **$50,000.**

UNCLASSIFIED

PROPOSED WORK

†California—IMPROVEMENTS—U. S. Eng., Marysville, imprvs., water, gasoline, waste disposal sys., Inv. 129.

†California—IMPROVEMENTS—U. S. Eng., Wright Bldg., Sacramento, plans nearing completion by H. J. Devine, Cronin Bldg., Sacramento, imprvs., defense housing.

†California—IMPROVEMENTS—U. S. Eng., 74 New Montgomery St., San Francisco, imprvs., housing.

★**†Florida**—GASOLINE PIPE LINE, etc.—Gulf Oil Co. & Associates, Port St. Joe, gasoline and oil pipe line from Port St. Joe to Jacksonville. Federally financed.

Florida—IMPROVEMENTS — Florida Towing Corp., W. T. Coppedge, pres., Durkee Bldg., Jacksonville, imprvs. $200,000-$300,000.

Georgia, Alabama, Mississippi, North and South Carolina—PUMPING STATIONS—Plantation Pipe Lines, Healey Bldg., Atlanta, Ga., 15 pump. stations and offices at Austell, Hartwell, Winder, Lagrange, all in Georgia; Finker, La.; Simpsonville and Blacksburg, S. C.; Hawthorn, Miss.; Boyd, Coaling, Vincent, Heflin, all in Alabama; Huntersville and Thomasville, N. C.

Ia., Esterville—AIRPORT—G. W. Shadle, city clk., surveys soon airport exten. $55,000. CD 2/7/41—ENR 2/20/41.

★**†Louisiana**—IMPROVEMENTS—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., imprvs. $1,000,000.

La., Marksville—AIRPORT—Airport. $120,000.

†La., Pointe-a-la-Hache—FERRY LANDING APPROACHES—Police Jury Plaquemines Parish, re-constructing approaches, piling at ferry landings, Mississippi River.

†Maine—LIGHTING SYSTEM—U. S. Eng., Park Square Bldg., Boston, Mass., revising plans, new bids soon, night lighting sys. Bids 7/23 recalled. CD 7/16, under BA.

Mississippi — IMPROVEMENTS — Industrial Company, imprvs. J. Allen Bradford, Biloxi, engr.

†New Mexico—RUNWAYS, etc.—U. S. Eng., Albuquerque, plans by Wilson & Co., engrs. and archts., Albuquerque, runways, taxiways, roads and drainage, Curry Co.

N. Y., Jamestown—RUNWAYS, etc.—City Dpt. P. Wks., City Hall, exten. 5 hard-surfaced runways, other imprvs., etc., municipal airport, N. Main St. exten. $25,000. C. J. Strandburg, city engr.

UNCLASSIFIED (Proposed Work, Cont'd.)

†**Oklahoma**—IMPROVEMENTS—U. S. Eng., 231 W. Main St., Denison, Tex., imprvs., bldgs., facilities, $300,000. Rausner-Rolfe & Jackson, Dallas, engrs. and archts.

†**Oregon**—IMPROVEMENTS—U. S. Maritime Comn., 14 St. between E St. and Constitution Ave. N.W., Wash., D. C., imprvs. $400,000.

Pa., Neville Island (P. O. Pittsburgh)—RELOCATING TRACKAGE, etc. — Pittsburgh, Neville Island & Coraopolis Ry. Co., subsidiary Pittsburgh Railways Co., 435 6 Ave., Pittsburgh, relocating, rebuilding trackage. $230,000.

†**Texas** — IMPROVEMENTS — U. S. Eng., Citizens Bank Bldg., Denison, rejected bids imprvs., drainage, grading, $70,000; roads, asphalt paving, $80,000; both Inv. 257-42-233. CD 8/6—ENR 7/9. under LB.

†**Texas**—RUNWAYS, etc.—U. S. Eng., Albuquerque, N. M., plans by Wilson & Co., engrs. and archts., Albuquerque, N. M., runways, taxiways, roads, drainage, Ward Co.

†**Texas**—UTILITIES—U. S. Eng., Fort Sam Houston, bids soon, underground utilities, Spec. 42-230. Plans deposit $25.

Tex., Brownsville—CONTROL TOWER, etc. —Control tower, facilities, W. O. Washington, city engr.

Tex., Montague—OIL PIPELINE CARRIER —Sinclair Refining Co., Fair Bldg., Fort Worth, installing 17 mi. 4 in. crude oil pipeline carrier, steel, welded joint. $60,000.

Tex., Texas City—CONTROL TOWERS—Texas City Tin Smelter Corp., Texas City, brick, steel concrete control towers. $50,000. Eslinger-Mish Corp., Texas City, engrs.

Vt., Burlington—HANGAR—Northeast Airlines, Inc., 137 St. Paul St., sketches by Freeman-Fremch-Freeman, 138 Church St., hangar, municipal airport.

†**Washington** — GASOLINE and FUELING SYSTEM—U. S. Eng., 800 3 Ave., Seattle, plans by G. W. Stoddard, Orpheum Bldg., Griffin & Lowe & Associates, Lloyd Bldg., all Seattle, gasoline and fueling sys., Spokane, Co.

†**Wash., Wenatchee**—TRANSMISSION LINE —Bonneville Power Admin., P. O. Box 3537, Portland, Ore., 1 mi. wood pole transmission line, incl. 1 river crossing to Wenatchee Alloys, Inc., plant, and 1 substation. $178,400.

†**Pacific Northwest**—ELECTRIC DISTRIBUTION SYSTEM, etc.—U. S. Eng., Textile Tower, Seattle, Wash., electric distr. sys. and lubricating oil sys.

Man., MacDonald—ACCOMMODATION—Secretary Dpt. Munitions & Supply, Ottawa, Ont., addnl. temporary accommodation at Bombing and Gunnery School 5, for Dpt. Natl. Defense for Air, Ottawa, Ont. $200,000.

Ont., Meaford — ARTILLERY RANGE GROUND DEVELOPMENT — Dominion Govt., Ottawa, ground development for artillery range. $75,000. Dpt. National Defense, Ottawa, engrs.

Ont., St. Thomas—AIR SCHOOL—Secy. Dpt. Munitions & Supply, Ottawa, bids soon addnl. accommodations for No. 1 Technical Training School, for Dpt. Natl. Defense for Air. $200,000.

Ont., St. Vincent Twp. (near Meaford)—TANK RANGE—Dpt. National Defense, Ottawa, tank range, concrete roadways, bldgs. for forces and ranges. $100,000.

Que., Quebec City—DAM—Provincial Govt., Quebec City, dams on St. Francis River. $200,000. Dpt. P. Wks., Quebec City, engrs.

BIDS ASKED

Bids Asked August 12

†**Maryland**—TOPSOILING, etc.—Pub. Bldgs. Admin., North Interior Bldg., Wash., D. C., topsoiling, seeding, sodding, etc.

Bids Asked August 14

Man., Paulsen—ACCOMMODATIONS—Secretary Dpt. Munitions & Supply, Ottawa, Ont., addnl. temporary accommodation at Bombing and Gunnery School for Dpt. Natl. Defense for Air, Ottawa, Ont. $200,000.

Bids Asked August 18

N. Y., New York—TUNNEL FINISH—Port of New York Auth., 111 8th Ave., New York, tunnel finish, MHT-61, Lincoln Tunnel.

Bids Asked August 27

Ill., Chicago—LIGHTING FIXTURES, etc.—City, at office P. Harrington, comr. subways and superhighways, 20 N. Wacker Dr., installing lighting fixtures, illuminated signs, Order N S-3 of Contr. E-5; adv. ENR Aug. 6.

Bids Asked

†**Ohio**—RUNWAY—Fisher Body Div. General Motors Corp., E 140 and Coit Sts., Cleveland, concrete runway for plant for War Dpt.

†**Texas**—CLEARING, etc.—U. S. Eng., Fort Sam Houston, clearing, blading, constructing fencing, Spec. 42-239, Area 5, over $25,000; same, area 3, Spec. 42-237, over $25,000. Plans deposit $25 each project.

†**Texas**—FENCE—U. S. Eng., Fort Sam Houston, boundary fence, Spec. 42-232. Over $25,000. Plans deposit $25.

†**Texas**—UTILITIES—U. S. Eng., Fort Sam Houston, underground utilities, Spec. 42-258. Plans deposit $25.

LOW BIDDERS

†**Alabama**—IMPROVEMENTS—U. S. Eng., Courthouse, Mobile, July 28, imprvs., grading, drainage, paving, Inv. 569-43-47, from J. E. Milan Constr. Co., 8940 1 Ave. S., Birmingham.

†**Alabama**—IMPROVEMENTS—U. S. Eng., Courthouse, Mobile, July 27, imprvs., housing, Inv. 569-43-42, from Neal C. Morgan Constr. Co., Tuscaloosa.

†**California**—IMPROVEMENTS—U. S. Eng., Wright Bldg., Sacramento, July 29, imprvs., water, gasoline and waste water sys., Spec. 131, from Andrew A. Pollia, 695 22 Ave., San Francisco, under **$50,000.**

★**Conn., Groton (br. New London)**—AIRPORT—State Airport Comn., State Office Bldg., Hartford, July 27, grading, draining, exten. runways from 2,400 to 4,000 ft., increase width 500 ft., Inv. 699-43-2, from Carlo Bianchi & Co., Inc., 24 Union Ave., Framingham, Mass., **(A) $899,154, (B) $672,094;** from N. Benvenuti, 6 Elm St., New London, **(C) $1,150,000.** Est. $685,000. CD 7/16—ENR 7/23.

†**Louisiana**—IMPROVEMENTS—U. S. Eng., foot of Prytania St., New Orleans, July 27, imprvs., housing, Inv. 43-30, from Rabalais & Murphy, 214 S. 12 St., Baton Rouge.

†**Maine**—UTILITIES, etc.—Farm Security Admin., A. Kopp, bus. mgr., 17 Brief Ave., Upper Darby, Pa., July 30, utilities, incl. water, sewer and electric utilities, grading, drainage, roads, walks, etc., from W. H. Hinman, Inc., North Anson, **$83,652.** CD 7/22—ENR 7/16.

†**Mississippi**—IMPROVEMENTS—U. S. Eng., Courthouse, Mobile, Ala., imprvs., grading, paving, drainage, Inv. 569-43-39, from Chandler Bros., Virgilina, Va.

†**Nevada**—LIGHTING SYSTEM—U. S. Eng., Wright Bldg., Sacramento, Calif., July 27, night lighting sys., from H. O. Bauerle, 8948 Ellis Ave., Los Angeles, Calif., under **$50,000.**

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Fort Sam Houston, outdoor overhead electrical distr. sys., Spec. 42-182, from O. L. Embry, Brady, under **$50,000.** CD 7/14—ENR 7/16.

†**Texas** — IMPROVEMENTS — Industrial Company, imprvs., from Texas Gulf Const. Co., 2008 S. Wayside Dr., Houston. **$368,000.** CD 7/22—ENR 7/30.

CONTRACTS AWARDED

†**Alabama** — SPRINKLER SYSTEM — U. S. Eng., Courthouse, Mobile, automatic sprinkler sys., Dallas Co., to Georgia Sprinkler Co., 207 Spring St. S.W., Atlanta, Ga., under **$50,000.**

†**Alabama**—IMPROVEMENTS—U. S. Eng., 306 Courthouse, Nashville, Tenn., imprvs., bldgs., to Nile E. Yearwood, 1701 Church St., Nashville, Tenn., Bids 7/25, CD 7/20; water and sewer lines, to Sullivan, Long & Hagerty, Bessemer, Bids 7/27, J. W. Goodwin & E. B. Van Keuren, Martin Bldg., Birmingham, engrs. and archts.

†**Arkansas**—SPRINKLER SYSTEM, etc.—U. S. Eng., Gay Bldg., Little Rock, automatic sprinkler sys., to Perkins Automatic Sprinkler Co., Little Rock, under **$50,000*****oil storage sys., to Flotation Systems, Inc., 4031 Goodwin Ave., Los Angeles, Calif., under **$50,000** ***gasoline sys., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y., **$50,000-$100,000,** all foregoing in Arkansas Co.

†**Arkansas**—IMPROVEMENTS—U. S. Eng., P. O. Box 97, Memphis, Tenn., imprvs., water and sewerage sys., to Arkansas-Crittendon Const. Co., West Memphis, Ark.

★†**Arkansas**—POWER FACILITIES—U. S. Eng., P. O. Box 97, Memphis, Tenn., power transmission facilities, to Arkansas-Missouri Power Corp., Blytheville. Est. less than **$1,000,000.**

★**Ark., Helena**—PIPELINE—Gulf Refining Co., Gulf Bldg., Houston, Tex., clearing right of way for pipeline, to Williams Bros. Corp., Tulsa National Bank Bldg., Tulsa, Okla. Total est. **$500,000.** CD 7/15—ENR 7/23.

†**Arizona** — IMPROVEMENTS — U. S. Eng., 751 S. Figueroa St., Los Angeles, imprvs., Job No. A-2-1, to Arizona Constructors, Inc., Luhrs Bldg., Phoenix. Awarded 7/25.

†**Arizona**—RAIL FACILITIES—U. S. Eng., Albuquerque, N. M., rail facilities, Coconino Co., to Arizona Constructors, Homebuilders Bldg., Phoenix, **$100,000-$500,000.**

†**Arizona**—RAILROAD SPURS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., railroad spurs, Mohave Co., to W. S. Ford, Kingman, **$50,000-$100,000.**

†**Arkansas**—FACILITY—U. S. Eng., P. O. Box 97, Memphis, Tenn., constructing steel facility, Lawrence Co., to Erwin-Newman Co., M & M Bldg., Houston, Tex., under **$50,000.**

†**Arkansas**—FIRE ALARM SYSTEM—U. S. Eng., 300 Bway., Little Rock, fire alarm system, Pulaski Co., to American District Telegraph Co., 155 6 Ave., New York, N. Y., under **$50,000.**

★†**Arkansas**—IMPROVEMENTS—U. S. Eng., Gay Bldg., Little Rock, improvements, to Crowley, Screeton & Roberts, Hazen. Est. **$500,000.** CD 6/10—ENR 6/18, under LB.

†**California**—RAILROAD[illegible] 751 S. Figueroa St., Los [illegible] railroad line, Los Angeles [illegible] tric Railway Co., 610 S. [illegible] under **$50,000.**

†**California**—ELECTRIC[illegible] SYSTEM—U. S. Eng., [illegible] Los Angeles, electrical [illegible] Co., to C. D. Draucker, Los Angeles, **$50,000-$100,000.**

†**California**—FENCING[illegible] Figueroa St., Los Ang[illegible] Co., to Burkett Fence Co., [illegible] Blvd., Los Angeles, under $[illegible]

†**California**—IMPROVEM[illegible] 751 S. Figueroa St., Lo[illegible] sewer, water sys., street[illegible] hannan Paving Co., 15[illegible] Van Nuys. Bids 7/8, awa[illegible]

†**California** — ELECTRI[illegible] Eng., Wright Bldg., Sac[illegible] work addn., San Joaqui[illegible] Electrical Co., 708 E. Ma[illegible] under **$50,000.**

†**California**—RUNWAYS, [illegible] 751 S. Figueroa St., Los [illegible] taxiways, concrete aprons [illegible] Pearson & Dickerson Con[illegible] Moor Contg. Co., Phoenix [illegible] and Tanner Constr. Co., J. [illegible] Oswald Bros., 731 N. 19 St., Phoenix, Ariz., **$100,000-$500,000.**

★†**California** — IMPROVEMENTS — U. S. Eng., Wright Bldg., Sacramento, [illegible] standing area, San Joaquin [illegible] & Son, Inc., 1846 37 St., Sacramento, **$1,000,000.**

†**California** — LIGHTING FACILITIES — U. S. Eng., Wright Bldg., Sacramento, lighting facilities, relocation control panel, Kern Co., to R. Flatland, San Francisco, under **$50,000.**

†**California** — LIGHTING SYSTEM — U. S. Eng., 751 S. Figueroa St., Los Angeles, lighting sys., Kern Co., to H. O. Bauerle, 8948 Ellis Ave., Los Angeles, under **$50,000.**

†**California**—COMPASS SWINGING BASE—U. S. Eng., Wright Bldg., Sacramento, compass swinging base, Fresno Co., to L. H. Hansen & Sons, Fresno, under **$50,000.**

†**California**—FIRE and AIR RAID ALARM SYSTEM—U. S. Eng., Wright Bldg., Sacramento, fire and air raid alarm sys., Kern Co., to E. L. French, 1926 O St., Sacramento, under **$50,000.**

†**California**—FUEL STORAGE TANKS—U. S. Eng., 751 S. Figueroa St., Los Angeles, fuel storage tanks, Kern Co., to Edward R. Sipe, 2545 San Fernando Rd., Los Angeles, under **$50,000.**

†**California** — IMPROVEMENTS — Industrial Company imprvs., to Alfred J. Hoppe, 1522 Latham Square Bldg., Oakland. CD 7/28

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, imprvs., utilities, sewer and water distr. sys. exten., to E. R. Siple, 2545 San Fernando Rd., Los Angeles. Awarded 7-25.

★†**California**—IMPROVEMENTS—U. S. Eng., Wright Bldg., Sacramento, imprvs., Kaye Co., to Pacific Rock & Gravel Co., 288 W. [illegible] St., Los Angeles, **$500,000-$1,000,000.**

★†**California**—IMPROVEMENTS—U. S. Eng., 74 New Montgomery St., San Francisco, imprvs., to R. J. Minton Constr. Co., 155 Sansome St., San Francisco, under $1,000,000. Awarded 7/28.

†**California**—SPRINKLER SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, automatic sprinkler sys., Riverside Co., to Automatic Sprinklers of the Pacific, Inc., [illegible] Alhambra Ave., Los Angeles, under $50,000.

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, imprvs., addnl. surfacing, Inv. 134, to Harvey Aluminum Constr. Co., 1147 E. Garvey Ave., El Monte, Bids 7/25, awarded 7/27.

★†**California** — IMPROVEMENTS — U. S. Eng., 74 New Montgomery St., San Francisco, imprvs., to Peter Sorensen, 827 Arguello Blvd., Redwood City, under $50,000. Awarded 7/29.

★†**Colorado**—RUNWAYS, etc.—U. S. Eng., c/o Postmaster, Denver, exten. runways, parking aprons, and taxi ramp, Denver Co., to J. H. Bertrand, Inc., 4295 York St., Denver, and Peter Kiewit Sons Co., Omaha Nat. Bank Bldg., Omaha, Neb., **$500,000-$1,000,000.**

†**Connecticut** — FIRE ALARM SYSTEM — U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., fire alarm sys., facilities, to Rockwood Sprinkler Co., 141 Milk St., Boston, Mass. Bids 7/22.

†**Connecticut**—ELECTRIC SYSTEM—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., electric sys., Hartford Co., to M. E. Foster Electric Co., 240 George St., New Haven, **$100,000-$500,000.**

†**Florida** — TARGET BUTT — U. S. Eng., Courthouse & Postoffice, Jacksonville, target butt, Sarasota Co., to Johnson & Mann, Wagreen Bldg., St. Petersburg, under $50,000.

UNCLASSIFIED (Contracts Awarded, Cont'd.)

★†**Florida**—IMPROVEMENTS—U. S. Eng., Courthouse & Postoffice, Jacksonville, Imprvs., Inv. Jax-43-52, to Johnson & Mann, Walgreen Bldg., St. Petersburg, less than $1,000,000.

†**Florida**—TARGET RANGE FACILITIES—U. S. Eng., Courthouse & Postoffice, Jacksonville, target range facilities, Lee Co., to R. E. Clarson, Inc., Power & Light Bldg., St. Petersburg, $50,000-$100,000.

†**Florida**—TAXIWAYS, etc.—U. S. Eng., Courthouse & Postoffice, Jacksonville, taxiways, hardstand, apron, drainage facilities, Dade Co., to Powers & Archibald, Inc., Harvey Bldg., West Palm Beach, $100,000-$500,000.

†**Florida**—DOCKS, etc.—U. S. Eng., Courthouse, Mobile, Ala., docks, wharf, Franklin Co., to Hilliyer & Lovan, 111 W. Ashley St., Jacksonville, $100,000-$500,000.

†**Georgia** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 494 Spring St. N.W., Atlanta, electrical distri. sys., Walker Co., to Miami Beach Electric Co., Atlanta, under $50,000.

†**Georgia** — SPRINKLER SYSTEM — U. S. Eng., Courthouse, Mobile, Ala., automatic sprinkler sys., Decatur Co., to Jones Automatic Sprinkler Co., Plains, under $50,000.

†**Georgia** — IMPROVEMENTS — U. S. Eng., Postoffice Bldg., Savannah, imprvs., AF-1315.3, to E. Jack Smith, Hurt Bldg., Atlanta.

†**Idaho**—IMPROVEMENTS—U. S. Eng., Pittock Blk., Portland, Ore., bituminous surfacing parking areas, aprons, shoulders, roads, driveways, Bannock Co., to Morrison-Knudsen Co., Inc., 319 Hway., and Triangle Constr. Co., 1707 Crescent Rim Dr., Boise, under $50,000.

†**Idaho**—LIGHTING SYSTEM—U. S. Eng., Pittock Blk., Portland, Ore., electrical street lighting sys., Bannock Co., to City Electric Co., Pendleton, Ore., $100,000-$500,000.

†**Illinois**—POLES—U. S. Eng., Courthouse & Customhouse, St. Louis, Mo., poles for outside steam distr. sys., Sangamon Co., to Miller Constr. Co., 1955 Martindale Ave., Indianapolis, Ind., under $50,000.

†**Illinois** — PILE DRIVING — U. S. Eng., Courthouse & Customhouse, St. Louis, Mo., driving piles, Macon Co., to Zimmerly Constr. Co., Paris, under $50,000.

†**Iowa** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Clock Tower Bldg., Rock Island, Ill., electrical distr. sys., Polk Co., to Electric Equipment Co., 207 Grand St., Des Moines, under $50,000.

†**Iowa** — GASOLINE STORAGE PLANT — U. S. Eng., 1709 Jackson St., Omaha, Neb., temporary gasoline bulk storage plant, Woodbury Co., to Harry Noel, Spencer, under $50,000.

†**Kansas**—FUELING SYSTEM, etc.—U. S. Eng., 10 E. 17 St., Kansas City, Mo., gasoline fueling and lubrication sys., Saline Co., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y. $100,000-$500,000.

★†**Kansas**—RUNWAYS, etc.—U. S. Eng., Albuquerque, N. M., runways, taxiways, roads and drainage, Finney Co., to List and Clark Constr. Co. and San Ore Constr. Co., McPherson, $1,000,000-$5,000,000. CD 7/14—ENR 7/16.

†**Kentucky**—IMPROVEMENTS—U. S. Eng., 612 Federal Bldg., Louisville, imprvs., Jefferson Co., to Geo. M. Eady Co., 340 Byrne St., Louisville, $50,000-$100,000.

†**Kentucky**—TARGET BUTT WELL, etc.—U. S. Eng., 612 Federal Bldg., Louisville, target butt well, target frame support pedestals, Union Co., to Pioneer Contract Co., Inc., Mt. Vernon Rd., Evansville, Ind., $100,000-$500,000.

†**Louisiana** — GASOLINE PIPELINE DISPENSING SYSTEM—U. S. Eng., foot of Prytania St., New Orleans, gasoline pipe line dispensing sys., Rapides Co., to Barnet Brezner, Alexandria, under $50,000.

†**Louisiana** — IMPROVEMENTS—U. S. Eng., foot of Prytania St., New Orleans, paving taxiways and hardstandings, Beauregard Co., to Robinson & Young, and Glassell-Taylor, 1417 Dalzell St., Shreveport, $100,000-$500,000.

Me., Bath—PIER—Bath Iron Wks. Corp., 4 Union Rd., rein.-con., wood pier, to Reed & Reed, Norwich. $75,000. Bids 7/17. CD 7/9—ENR 7/16.

†**Maryland**—STEAM LINE, etc.—U. S. Eng., Standard Oil Bldg., Baltimore, underground steam line and connections to storm and sanitary sewer water distr. and overhead electrical distribution, Harford Co., to John Matricciani & Sons, 229 S. Exeter St., Baltimore. Under $50,000.

Maryland — IMPROVEMENTS — Industrial Company, imprvs., concrete fdns., to Booth & Flinn Co., 1942 Forbes St., Pittsburgh, Pa. Est. $50,000.

†**Massachusetts** — WOODEN PLATFORMS—U. S. Eng., Park Square Bldg., Boston, wooden platforms, Boston Co., to J. F. Fitzgerald Constr. Co., 214 Essex St., Boston, under $50,000.

†**Massachusetts**—FENCING—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., fencing, Hampden Co., to American Spring Bed Mfg. Co., American Chain Link Fence Co. Div., Medford, under $50,000.

†**Massachusetts** — LIGHTING SYSTEM — U. S. Eng., Park Square Bldg., Boston, lighting sys., Norfolk Co., to W. Gens & Son, 208 Purchase St., Boston, under $50,000.

†**Massachusetts**—STORAGE and HYDRAULIC DISPENSING SYSTEM—U. S. Eng., Park Square Bldg., Boston, storage and hydraulic dispensing sys., Middlesex Co., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y., under $50,000.

Massachusetts—STEAM and AIR LINES—Industrial Company, steam and air lines, to C. N. Flagg & Co., Inc., 79 Griswold St., Meriden, Conn., $146,305.

†**Michigan**—RAILROAD SPUR TRACKS—U. S. Eng., 700 Union Guardian Bldg., Detroit, railroad spur tracks, Iosco and Alpena Counties, to Detroit and Mackinac Railway Co., Tawas City.

†**Minnesota**—ELECTRIC LINES, etc.—U. S. Eng., Postoffice & Customhouse, St. Paul, electric and water lines, Hennepin Co., to Bernard S. Andrus, Richmond and S. Concord Sts. S., St. Paul, under $50,000.

★†**Mississippi**—RUNWAYS, etc.—U. S. Eng., Courthouse & Postoffice, Vicksburg, runways, apron and appurtenances, Leflore Co., to M. T. Reed Constr. Co., Belzoni, $1,000,000-$5,000,000.

†**Missouri**—IMPROVEMENTS—U. S. Eng., 800 Courthouse & Customhouse, St. Louis, imprvs., drilling wells, pump house, water distr. sys., sewerage sys., to E. J. Fischer, 4134 Westminster Pl., St. Louis.

†**Missouri**—LIGHTING SYSTEM—U. S. Eng., Courthouse & Customhouse, St. Louis, Mo., night lighting sys., Maries Co., to H. Chapline Electrical Co., 3805 Page St., St. Louis, under $50,000.

†**Nebraska**—GASOLINE FUELING SYSTEM, etc.—U. S. Eng., 1709 Jackson St., Omaha, gasoline fueling sys., storage tank, Lancaster Co., to Olson Constr. Co., W. J. Assenmacher Co. and Ernest Rokahr & Sons, 410 S. 7 St., Lincoln, $100,000-$500,000.

†**Nebraska** — ELECTRIC LIGHT AND POWER FACILITIES—U. S. Eng., 1709 Jackson St., Omaha, electric light and power facilities, Cheyenne Co., to Crawford Electric Co., North Platte, under $50,000.

†**Nebraska** — PARKING LOT, etc. — U. S. Eng., 1709 Jackson St., Omaha, parking lot and fence, Sarpy Co., to Yant Constr. Co., 917 N. 45 St., Omaha, under $50,000.

†**Nebraska** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 1709 Jackson St., Omaha, electrical distr. sys., Box Butte Co., to C and W. Contg. Co., Omaha, under $50,000.

†**Nevada** — RUNWAYS, etc. — U. S. Eng., Wright Bldg., Sacramento, Calif., runways, taxiways, apron and appurtenant facilities, Churchill Co., to Dodge Constr. Co., Fallon, $100,000-$500,000.

†**Nevada**—GASOLINE SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., gasoline fueling sys., Nye Co., to E. R. Siple Co., 2545 San Fernando Rd., Los Angeles, Calif., under $50,000.

†**Nevada**—SPRINKLER SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., addnl. sprinkler sys., Clark Co., to Automatic Sprinklers of the Pacific, Inc., 5508 Alhambra Ave., Los Angeles, under $50,000.

†**New Jersey**—RAILROAD FACILITIES—U. S. Eng., 120 Wall St., New York, N. Y., railroad facilities, Somerset Co., to Reading Co., Reading Terminal Station, Phila., Pa. Est. under $50,000.

†**New Jersey** — IMPROVEMENTS — U. S. Eng., 120 Wall St., New York, N. Y., imprvs., roads, to Standard Bitulithic Co., foot of Brill St., Newark, $235,816.

†**New Mexico** — IMPROVEMENTS — U. S. Eng., Albuquerque, imprvs., bldgs., to Lee Moor & T. Hansen, Bassett Tower, El Paso, Tex. approx. $388,000. Bids 7/14.

†**New York**—CABLE INSTALLATION—U. S. Eng., 120 Wall St., New York, installing cable, Nassau Co., to Long Island Lighting Co., 250 Old Country Rd., Mineola. $100,000-$500,000.

†**New York**—IMPROVEMENTS—U. S. Eng., 120 Wall St., New York, N. Y., grading, paving, lighting, Suffolk Co., to W. P. McDonald Constr. Co. and Good Roads Eng. & Contg. Co., 33-15 Lawrence St., Flushing, $100,000-$500,000. CD 6/17—ENR 6/25.

†**New York**—POWER FACILITIES—U. S. Eng., 960 Ellicott Square Bldg., Buffalo, installing power facilities, Jefferson Co., to Central New York Power Corp., 300 Erie Blvd. W., Syracuse, under $50,000.

†**New York** — REPAIRS — U. S. Eng., 120 Wall St., New York, repairs, Kings Co., to Sullivan Dry Dock & Repair Corp., foot of 23 St., Brooklyn. Est. under $50,000.

†**New York** — ELECTRIC SYSTEM — U. S. Eng., Chimes Bldg., Syracuse, outside electric sys., Albany Co., to Stearns Electric Constr. Corp., 20 Market St., Albany, under $50,000.

†**New York** — SERVICE TRACKS — U. S. Eng., 960 Ellicott Square Bldg., Buffalo, constructing service tracks, Erie Co., to H. F. Stimm, Inc., Ellicott Sq., Buffalo, under $50,000.

†**N. Y., Dunkirk**—AIRPORT—Civil Aeronautics Admin., LaGuardia Field, Jackson Heights, imprvs., to Depew Paving Co., Depew, $437,887. Bids 7/22, awarded 7/25. CD 7/17—ENR 6/18.

†**North Carolina**—CLEARING, etc.—U. S. Eng., 308 Custom House, Wilmington, clearing, grading, paving, Durham Co., to Mecklenberg Constr. Co., Durham, $100,000-$500,000.

Ohio—RAILROAD GRADE WORK—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., excavation and drainage for railroad grade, Portage Co., and sanitary sewers, water distr. sys., all Portage Co., to National Constr. Co., 12202 Spur St., Cleveland. Est. under $100,000.

†**Ohio**—GRADING, etc.—U. S. Eng., Wright Field, Dayton, grading, seeding, sodding, paving, water and electric lines, Clinton Co., to A. W. Burns Constr. Co., 424 Woodland St., Columbus, $100,000-$500,000.

†**Oklahoma** — FOUNDATIONS, etc. — U. S. Eng., 416 Wright Bldg., Tulsa, founds., footings for all bldgs., incl. operators quarters garage bldg, roads, to H. E. Cummins, 1702 Cypress St., Enid.

†**Oklahoma**—IMPROVEMENTS—U. S. Eng., Citizens Bank Bldg., Denison, Tex., imprvs., housing unit, to H. L. Rogers & Webb Co., Mid-Continent Bldg., Fort Worth, Tex., $100,000-$500,000.

★†**Oklahoma**—PAVING RUNWAYS, etc.—U. S. Eng., 231 W. Main St., Denison, Tex., paving runways and taxiways, Tillman Co., to Vilbig Constr. Co., Paris and Bourbon Sts., and J. Lee and E. A. Vilbig, Inc., 2529 Paris St., Dallas, Tex., $1,000,000-$5,000,000.

★†**Oklahoma**—RAILROAD SPUR TRACK, etc.—U. S. Eng., 231 W. Main St., Denison, Tex., railroad spur track, to Martin & Grace, Rio Grande Natl. Bldg., Dallas, Tex., under $50,000; paving runways and taxiways, to Russ Mitchell, Inc., 2302 Jefferson St., Houston, Tex., $1,000,000-$5,000,000, both in Carter Co.

†**Oklahoma** and **Texas**—ELECTRICAL DISTRIBUTION SYSTEMS—U. S. Eng., Denison, Tex., 4 outdoor overhead electrical dist. sys., facilities, etc., to Stovall Constr. Co., Sherman, Tex. $100,000-$500,000.

†**Oklahoma**—RAILROAD SPUR—U. S. Eng., 231 W. Main St., Denison, Tex., railroad spur, to St. Louis-San Francisco Ry. Co., Altus. $62,000.

†**Oklahoma**—IMPROVEMENTS—U. S. Eng., 231 W. Main St., Denison, Tex., imprvs., bldgs., to Fox Rig & Lumber Co., Beacon Bldg., Tulsa.

†**Oregon**—AUTOMATIC SPRINKLER SYSTEM—U. S. Eng., Pittock Blk., S.W., 10 Ave. and Washington St., Portland, automatic sprinkler sys., Benton Co., to Grinnell Co. of the Pacific, 5 and Brannan Sts., San Francisco, Calif., $50,000-$100,000.

†**Pennsylvania** — SPRINKLER SYSTEMS — U. S. Eng., 925 New Federal Bldg., Pittsburgh, installing sprinkler sys., Crawford Co., to Blaw Knox Constr. Co., Farmers Bldg., Pittsburgh, under $50,000.

†**Pennsylvania**—STORAGE TANKS, etc.—U. S. Eng., Chimes Bldg., Syracuse, N. Y., erection, testing storage tanks, to Pittsburgh Des Moines Steel Co., 270 Hway., New York, N. Y., under $50,000; constructing coal silos, to Nicholson Co., 10 Rockefeller Plaza, New York, N. Y., $50,000-$100,000, both projects in Lycoming Co.

†**Pennsylvania**—FENCE—U. S. Eng., Standard Oil Bldg., Baltimore, Md., fence, Cumberland Co., to A. F. Blessing, Newville, under $50,000.

†**Pennsylvania**—FIRE ALARM SYSTEM—U. S. Eng., 6 and Walnut Sts., Phila., automatic fire alarm system, Chester Co., to American District Telegraph Co., 155 6 Ave., New York, N. Y. Est. under $50,000.

†**South Carolina** — MOTOR TRANSPORT SERVICES, etc.—U. S. Eng., 33 Customhouse, Charleston, motor transport service, etc., Richland Co. to C. P. Shockley, 11325 Main St., Columbia. Est. under $50,000.

†**South Carolina**—TARGET FACILITIES—U. S. Eng., 33 Customhouse, Charleston, target facilities, Colleton Co., to J. S. Hiers Constr. Co., Walterboro, est. under $50,000.

†**South Carolina**—IMPROVEMENTS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., imprvs., to Southeastern Construction Co., 218 W. 2 St., Charlotte, N. C.

†**South Carolina**—UTILITIES—U. S. Eng., 33 Custom House, Charleston, utilities, Sumter Co., to Boyle Constr. Co., Sumter, under $50,000.

†**South Dakota**—GRADING, etc.—U. S. Eng., Administration Bldg., Fort Peck, Mont., grading storage area, constructing roads and railroads, Fall River Co., to Northwest Engineering Co., Rapid City, $100,000-$500,000.

†**South Dakota**—GASOLINE FUELING SYSTEM—U. S. Eng., Administration Bldg., Fort Peck, Mont., hydraulic displacement gasoline fueling sys., and oil storage system, both Pennington Co., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y. Est. $100,000 to $500,000 and under $50,000 respectively.

†**Tennessee**—RUNWAY EXTENSIONS, etc.—U. S. Eng., P. O. Box 97, Memphis, asphaltic concrete paving for runway extensions and taxiways, clay gravel bases, Shelby Co., to Lehman-Roberts Co., 575 N. Front St., Memphis. $100,000-$500,000. CD 7/1—ENR 7/9.

UNCLASSIFIED (Contracts Awarded, Cont'd.)

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 231 W. Main St., Denison, overhead electrical distr. sys., Dallas Co., to Libcap Electric Co., 208 S. Haskell St., Dallas, under **$50,000.**

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., San Antonio electrical distr. sys., Palo Pinto Co., to McClure State Electric Co., 608 N. Good St., Dallas, under **$50,000.**

†**Texas**—ELECTRIC DISTRIBUTION SYSTEM—U. S. Eng., Fort Sam Houston, electrical distr. sys., Brown Co., to G. P. O'Rourke Constr. Co., Austin, Tex., under **$50,000.**

†**Texas**—MARKING RUNWAYS—U. S. Eng., 25 St. and Avenue F, Galveston, marking runways, various counties, to W. H. Wood, Austin, under **$50,000.**

†**Texas** — AUTOMATIC SPRINKLER SYSTEM—U. S. Eng., San Antonio, automatic sprinkler sys., hospital bldgs., Bell Co., to Century Sprinkler Corp., 305 Graham St., Richmond, Va., under **$50,000.**

†**Texas**—RELOCATING PIPELINE—U. S. Eng., 231 W. Main St., Denison, relocating pipe line, Wichita Co., to Rogers & Vaughn Constr. Co. Inc., Wichita Falls, est. under **$50,000.**

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Fort Sam Houston, outdoor overhead electrical distr. sys., facilities, to Graham & Collins Electric Co., Main Ave., San Antonio, under **$50,000.** Bids 7/18 awarded 7/25. CD 7/14.

†**Texas**—OIL STORAGE FACILITIES, etc.—U. S. Eng., Fort Sam Houston, lubricating oil storage facilities, pumphouse, etc. Spec. 42-202, to Builders Co., 604 Builders Exch. Bldg., San Antonio. CD 7/14.

†**Texas**—AIR CONDITIONING SYSTEM— U. S. Eng., 231 W. Main St., Denison, furnishing, installing air conditioning sys., Grayson Co., to Dallas Air Conditioning Co., Inc., 3500 Commerce St., Dallas, under **$50,000.**

†**Texas**—GRADING—U. S. Eng., 231 W. Main St., Denison, area grading, road and street grading, drainage, Childress Co., to E. W. Hable, Corsicana, **$100,000-$500,000.**

†**Texas**—PLUMBING, etc.—U. S. Eng., 25 St. and Avenue F, Galveston, installing plumbing, water, sanitary sewers, storm drains, gas piping and compressed air piping, Harris Co., to Robischung-Kiesling Contg. Corp., 4805 Travis St., Houston, **$100,000-$500,000.**

†**Texas**—RELOCATING LINES—U. S. Eng., 231 W. Main St., Denison, relocating gasoline line, Cooke Co., to Longmire Welding & Boiler Works, 413 E. 4 St., Fort Worth, under **$50,000.**

★†**Texas** — IMPROVEMENTS — U. S. Eng., Box 61, Tulsa, Okla., imprvs., bldgs., to Reinhart & Donovan Co. and Johnson, Burns & Kraft, 804 Commercial Exch. Bldg. Oklahoma City, Okla., **$1,000,000-$5,000,000.**

†**Texas**—RELOCATING CEMETERY—U. S. Eng., 231 W. Main St., Denison, relocating cemetery, excav., drainage, fencing, to S. L. Ogletree, Sherman under **$50,000.** Awarded 7/24. CD 6/5.

†**Texas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Fort Sam Houston, outdoor overhead electrical distr. facilities, Spec. 42-190, to P. Wright, Main Ave., San Antonio, **$50,000-$100,000.** Awarded 7/25.

†**Texas**—FENCING—U. S. Eng., San Antonio, fencing, Bexar Co., to V. and A. Falbo, 515 N. San Saba St., San Antonio, under **$50,000.**

Texas — IMPROVEMENTS — Houston Shipbuilding Corp., Esperson Bldg., Houston, imprvs., force account. **$60,000.** CD 7/2—ENR 7/9.

★†**Texas** — IMPROVEMENTS — U. S. Eng., Federal Bldg., Galveston, concrete paving, excav., to Globe Montgomery & Whitham, Esperson Bldg., Houston. **$500,000-$1,000,000.** CD 7/23—ENR 7/30, under LB.

†**Texas**—SPRINKLER SYSTEM—U. S. Eng., Fort Sam Houston, water sprinkler sys., facilities, Spec. 42-208, to Century Sprinkler Corp., Richmond, Va., under **$50,000.** Awarded 7/25.

†**Utah** — UNLOADING PLATFORMS — U. S. Eng., 32 Exchange Pl., Salt Lake City, unloading platform, Tooele Co., to Harrison & Dorman, Inc., 13 St. S. and 4 St. W. Salt Lake City, under **$50,000.**

★†**Virginia**—GRADING, etc.—U. S. Eng., 415 P. O. and Court House Bldg., Norfolk, grading, leveling runways and paving, Nansemond Co., to Rea Constr. Co., Charlotte, N. C. and A. B. Burton Co., Lynchburg, **$500,000-$1,000,000.**

†**Virginia**—IMPROVEMENTS—U. S. Eng., 415 Post Office and Court House Bldg., Norfolk, installing plumbing, heating, drainage and water supply, Warwick Co., to Mehring & Hanson Co., 12 H St., N.E., Wash., D. C., est. under **$50,000;** installing electrical system Warwick Co., to M. Hunter, 111 N. 3 St., Richmond, est. under **$50,000.**

†**Virginia**—TEST SECTIONS—U. S. Eng., 415 Post Office & Court House, Norfolk, constructing test sections for toning down runway and taxiways berms, Henrico Co., to Reeves Bros., Easley, S. C., under **$50,000.**

†**Washington** — ELECTRICAL DISTRIBUTION SYSTEM, etc.—U. S. Eng., Pittock Blk. S.W., 10 Ave. and Washington St., Portland, Ore., electrical distr. and street lighting sys., to Huenergard & Cherveny, Park Bldg., Portland, Ore., under **$50,000.**

†**Washington** — ELECTRICAL SYSTEM — U. S. Eng., 809 3 Ave., Seattle, electrical system addns., Pierce Co., to Electric Construction Co., Tacoma, Wash., under **$50,000.**

†**Washington**—SPRINKLER SYSTEM—U. S. Eng., Pittock Block, Portland, Ore., constructing sprinkler sys., Clark Co., to National Automatic Sprinkler Co., 907 NW Irving St., Portland, Ore., under **$50,000.**

†**Washington** — LIGHTING SYSTEM — U. S. Eng., 809 3 Ave., Seattle, protective lighting sys., Snohomish Co., to City Electric & Fixture Co., 1022 3 St., Seattle, under **$50,000.**

†**Washington**—AIR CONDITIONING SYSTEM, etc.—U. S. Eng., Textile Tower, Seattle, air conditioning sys., to Vandermeer & Newland, 2502 Colby St., Everett, less than **$50,000;** automatic sprinkler sys. and valve house, to Viking Automatic Sprinkler Co., 1120 8 Ave. S., Seattle, under **$50,000.**

†**Washington**—ELECTRIC DISTRIBUTION SYSTEM—U. S. Eng., Textile Tower, Seattle, Wash., electric distr. sys., to Electric Smith, E121 Sprague St., Spokane, less than **$50,000.**

★†**Washington** — IMPROVEMENTS — U. S. Eng., Textile Tower, Seattle, imprvs., to S. Bergeson and Wick & Dahlgren, 1362 30 Ave. S., Seattle, under **$500,000*****bldg., to Macdonald Bldg. Co., 1517 S. Tacoma Way Tacoma, under $100,000; radio receiver bldg., King Co., to Norge Constr. Co., 5008 Admiral Way, Seattle, **$100,000-$500,000.**

†**Washington**—POWER SYSTEM, etc.—U. S. Eng., Textile Tower, Seattle, auxiliary power sys., to H. E. Mills, 1511 Cornwall St., Bellingham, under **$50,000*****lighting sys., to City Electric & Fixture Co., 1022 Third Ave., Seattle, under **$50,000*****military installation, to MacRae Bros., 2733 4 Ave. S., Seattle, under **$50,000.**

†**Wisconsin**—WALLS—U. S. Eng., 408 Federal Bldg., Milwaukee, brick, concrete walls, Sauk Co., to Wolfes-Jensen & Co., Inc., 129 N. Dearborn St., Chicago, Ill., **$100,000-$500,000.**

†**Wisconsin**—FIRE ALARM SYSTEM, etc.—U. S. Eng., 222 W. North Bank St., Chicago, Ill., fire alarm sys., Monroe Co., to American District Telegraph Co. of Wis., 623 N. 2 St., Milwaukee, under **$50,000;** automatic sprinkler sys., Monroe Co., to Reliable Automatic Sprinkler Co., 78 Bronx St., Mt. Vernon, N. Y., under **$50,000.**

†**Wyoming** — GASOLINE DISTRIBUTION SYSTEM, etc.—U. S. Eng., 1709 Jackson St., Omaha, Neb., gasoline distr. and oil lubrication sys., Natrona Co., to Slack Plumbing & Electric Co., Casper, **$100,000-$500,000.**

†**Wyoming** — LIGHTING SYSTEM — U. S. Eng., 1709 Jackson St., Omaha, Neb., lighting sys., Albany Co., to F. W. Fitch, Cheyenne, under **$50,000.**

Alta., Ensign—AREODROME—Dpt. Transport, Ottawa, Ont., addnl. aerodrome development, Relief 1, to Vulcan, grading, hard-surface runways, etc., to Doncaster Const. Co., Ltd., Edmonton. **$300,000.** Bids 7/7. CD 6/26—ENR 7/2.

B. C., Esquimalt — WHARF-DRYDOCK — Dpt. National Defense for Sea, Ottawa, Ont., widening easterly portion, south landing wharf-drydock, to Victoria Pile Driving Co., Ltd., 625 Fort St., Victoria, **$27,500.** CD 3/11—ENR 3/26.

B. C., Woodcock—AIRPORT—Dpt. Transport, Ottawa, Ont., airport, clearing, stumping, grubbing, grading, fencing, hard-surface runways and taxistrips, to Dutton Bros. & Co., Ltd., Calgary, Alta., about **$390,000.**

Man., Carberry — AIRPORT — Secy. Dpt. Transport, Ottawa, Ont., airport development, grading, smoothing, hard surface taxi strips, parking areas, drainage, for Dpt. Natl. Defense for Air, to Long Lac Const. Co., Ltd., Royal Edward Hotel Bldg., Fort William, Ont. **$98,682.** CD 4/15—ENR 4/23.

Man., MacDonald — AIRPORT — Secy. Dpt. Transport, Ottawa, Ont., airport development, hard surface runway extens., taxi strips, drainage, for Dpt. Natl. Defense for Air, to Long Lac Constr. Co., Ltd., Royal Edward Hotel Bldg., Fort William, Ont., about **$150,000.** CD 4/30—ENR 5/7.

Man., Netley Lake (Gimli)—Dpt. Transport, Ottawa, Ont. development aerodrome, R. No. 1 to Gimli, clearing grading, stumping, smoothing, fencing, etc., to Nelson River Const. Co., Ltd., Winnipeg, about **$480,000.** CD 7/8—ENR 7/16.

★**N. S., Halifax** — IMPROVEMENTS — Dpt. Natl. Defense for Sea, Ottawa, Ont., works and bldgs., H. M. C. Dockyard, to Foundation Maritime, Ltd., 135 Lower Water St., Halifax, **$1,000,000.**

N. S., Sydney — Municipality, chlorinating plant.

Ont., Goderich—CLEARING, etc.—Dominion Govt., Ottawa, Ont., clearing, grading, etc. for aerodrome, to Sandy Contg. Works, Ltd., 7 Victoria St., **$45,600,** Dpt. Transport, Ottawa, engrs.

Ont., Ottawa—IMPROVE... Defense for Air, Ottawa... pairs, R.C.A.F. Station, R... Ltd., 208 Laurier Ave. E... $150,000

Que., Kanasuta—DAM—... Ltd., Iroquois Falls, Ont... struction over Booth... Constr. Co., Ltd., 1440... W., Montreal. Est. $100,000

Que., St. Honore — Air... Natl. Defense for Air, ... drome development, clear... age, hard-surfacing runw... to Local Const. Co., Ltd., ... Montreal. **$150,000.**

★**Que., St. Honore** (Chi... mi) — AERO... DROME—Dpt. Transp... aerodrome, clearing, grad... surfacing, to Highway Pa... Park Ave., Montreal. Es... 000.

Que., St. Hyacinthe—M... bids soon filtration plant... beds, 1 clear water well. ... Plamoudon, 369 Mt. Royal ... engr.

Sask., Dafoe—BOMBING ... and GUNNERY SCHOOL—Dpt. Natl. Defens... Ont., addnl. development at ... nery School, bldgs., to W... College Ave., Regina. $184,0...

LATIN AMERICA

Mexico—Mexican Govt., ... rigation tunnel, 25 mi. outsid... from Seaboard Constr. Corp., ... Mt. Kisco, N. Y. Est. over $4,000,000.

South America, Argentina—Republic ... Argentina, Buenos Aires, plans reconstructing lines of Trasandine Ry. Voted 3,000,000 pesos. CD 12/26—ENR 1/1.

PUBLIC BUILDINGS

PROPOSED WORK

†**Alabama**—Pub. Housing Auth., Georgia Savings Bank Bldg., Atlanta, Ga., demountable housing, Ala. 1078, Ala. 1079.

†**Alabama**—U. S. Eng., Courthouse, Mobile, plans by Burge & Stevens, engrs. and archts., Palmer Bldg., Atlanta, Ga., temporary frame bldgs., Dale Co.

†**Alabama**—U. S. Eng., 494 Spring St. N.W., Atlanta, Ga., plans temporary frame bldgs., Morgan Co. North Alabama Engineering Co., Decatur, engrs.

†**Ala., Montgomery**—City, plans by R. J. Adams, Tyson Bldg., health center, $25,000. **FWA.** CD 10/16—ENR 10/23.

†**Arizona**—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., plans by Harold W. Yoe, 1338 W. Roosevelt St., Phoenix, bldg.

†**Arizona**—U. S. Eng., Cotton Exch. Bldg., Dallas, Tex., bldg. $150,000.

★†**Arkansas**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, Tex., demountable housing, Ark. 3021.

†**Arkansas**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, Tex., permanent housing, Ark. 3-1.

†**Arkansas** — Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, Tex., plans by N. S. Branson, Blytheville, housing, ARK 5-1.

★†**Arkansas**—Wittenberg & Delony, archts., Pyramid Bldg., Little Rock, cancelled bids to have been opened July 21, demountable units, ARK-3045, and ARK 3044 for Pub. Housing Auth., NHA, 7 and Taylor Sts., Fort Worth, Tex. $1,250,000. Will readvertise. CD 7/7—ENR 7/9.

†**Arkansas**—U. S. Eng., Gay Bldg., Little Rock, plans by Ginocchio & Cromwell, Brueggeman, Swaim & Allen, engr. and archt., Hall Bldg., Little Rock, temporary frame housing, Crawford Co.

†**Arkansas**—U. S. Eng., Postoffice & Courthouse, Vicksburg, Miss., plans by Allied Architects & Engineers for Governmental Service, Little Rock, military housing.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, plans by E. Cray Taylor, E. Wing Taylor and S. B. Barnes, 803 W. 3 St., Los Angeles, bldg. San Diego and Los Angeles counties.

†**California**—Dpt. Agriculture, Guayule Rubber Project, Salinas, completing plans by C. E. Butner, 7 Winham St., Salinas bids soon, bldgs. $45,000.

†**California**—Maritime Comn., 14 St. between E St. and Constitution Ave., Wash., D. C., housing.

†**California**—Federal Works Agency, 49 6 St., San Francisco, U.S.O. recreational center $55,000. N. W. Sexton, 1602 De Young Bldg., San Francisco, archt.

†**California**—Napa Housing Auth., Chamber of Commerce Bldg., Napa, apts. and dormitory bldgs., for NHA.

PUBLIC BLDGS. (Proposed Work, Cont'd.)

★†**California**—Pub. Housing Auth., NHA, Humboldt Bank Bldg., 785 Market St., San Francisco, permanent housing, Cal. 2-1, and Cal. 2-4.

★†**California**—Pub. Housing Auth., NHA, Humboldt Bank Bldg., 785 Market St., San Francisco, plans by G. Adams, 2430 Cascadia Dr., Glendale, and W. T. Johnson, 1400 San Diego Trust Bldg., San Diego, demountable units, Cal. 4099 and Cal. 4258. CD 7/27—ENR 7/30.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, plans by A. O. Martin engr. and archt., Los Angeles, frame bldgs.

†**California** — U. S. Eng., Wright Bldg., Sacramento, plans by Mark Falk, archt. and engr., 2835 Gilroy St., Los Angeles, steel, concrete storage bldgs., Sierra Co.

★†**Calif., Vallejo**—Vallejo Unified School Dist., 640 Carolina St., revised plans prepared by Harry J. Devine, Cronin Bldg., Sacramento, high school, Docket Calif. 4-905-1. Bids 4/7 rejected. $500,000. **FWA.** CD 4/9—ENR 4/16, under LB.

†**Colorado**—U. S. Eng., Albuquerque, N. M., plans by Wilson & Co., engrs. and archts., Salina, Kan., frame bldgs., water, sewage facilities, Prowers Co.

†**Connecticut**—Public Housing Auth., NHA, 24 School St., Boston, plans by Payne & Keefe, 231 State St., New London, 328-unit frame dormitories, Conn. 6141 T. Over $150,000. CD 7/30.

†**Connecticut**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., plans by Harold A. Hayden, 175 Main St., Bristol, and Raymond J. Percival, 12 Haynes St., Hartford, and bids soon, defense housing, Conn. 6092. $2,000,000. CD 7/22—ENR 7/30.

†**Conn., Groton**—Town, C. M. Chester, chn. Bd. Educ., school, Conn. 6-111. $116,000. **FWA.** Project abandoned. Schoifield & Lindsley, 309 State St., New London, archt. CD 5/25—ENR 5/28.

†**Conn., Groton**—Town, S. B. Butler, Supt. Schools, Groton, temporary school. $150,000. **FWA.**

†**Conn., Hartford**—City, Bd. Contr. & Supply, 550 Main St., Hartford, bids soon, isolation unit hospital, Conn. 6-104. $303,904. **FWA.** CD 3/13—ENR 3/19.

Florida—Pub. Housing Auth., Georgia Savings Bank Bldg., Atlanta, Ga., demountable housing, Fla. 8131.

†**Florida**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by Young & Hart, Thiesen Bldg., Pensacola, housing.

†**Fla., Ft. Myers**—Federal Works Agency, F St. between 18 and 19 Sts. N.W., Wash., D. C., recreation bldg. $35,000.

★†**Georgia**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, demountable units, 9121, dormitories, Ga-9122, and dormitories, Ga-9123.

†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah, plans by W. F. Freeman, engr. and archt., High Point, N. C., frame housing, utilities, McIntosh Co.

★†**Illinois**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, demountable housing units, Ill-11165, and dormitories, Ill-11166.

★†**Illinois**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, permanent housing, Ill. 2-28.

★†**Indiana**—Perfect Circle Co., Hagarstown, plant addn. $3,000,000-$5,000,000. Federally financed.

★†**Indiana** — U. S. Eng., 520 Merchandise Mart, Chicago, Ill., mfg. plant. Over $5,000,000.

†**Indiana**—U. S. Eng., Federal Bldg., Louisville, Ky., plans by Allied Architects and Engineers of Indianapolis, 418 Architects & Builders Bldg., Indianapolis, temporary frame bldgs., Bartholomew Co.

†**Ind., Marion**—Veterans Admin., Arlington Bldg., Wash., D. C., cancelled bids to have been opened Aug. 11, Clinical Bldg. 124, and Connecting Corridor, 15-124, Project 1867. CD 7/17-ENR 7/30.

★†**Kansas**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., mfg. plant. Over $5,000,000.

★†**Kentucky**—Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., permanent housing, Ky. 1-3.

†**Kentucky**—U. S. Eng., 612 Federal Bldg., Louisville, plans by H. Meriwether and J. T. Gilly, both 234 E. Short St., and Frankel & Curtis, 572 McClelland Bldg., Lexington, engrs. and archts., temporary housing facilities, Union Co.

†**Kentucky**—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., military housing.

†**Ky., Louisville**—Pub. Health Service, Constitution Ave., between 19 and 20 Sts. N.W., Wash., D. C., plans by Colley & Hartstern, Realty Bldg., Waverly Hills Sanatorium addn. $165,000.

†**Louisiana**—U. S. Eng., Postoffice & Courthouse, Vicksburg, Miss., plans by Geo. P. Rice, engr. and archt. Baronne Bldg., New Orleans, temporary frame bldgs., Grant Co.

★†**Maine** — Pub. Housing Auth., NHA, 24 School St., Boston, Mass., housing, Me. 17036, $500,000. Plans deposit $50, addnl. sets $10 ea. CD 7/17—ENR 7/23.

★†**Maine** — Pub. Housing Auth., NHA, 24 School St., Boston, Mass., bids soon, dormitory apts., Me. 17038. CD 7/27—ENR 7/30.

★†**Md., Baltimore**—West Baltimore General Hospital, Inc., Rayner and Dukeland Aves., bids soon, 4 story hospital addn. $500,000. **FWA.** CD 5/19—ENR 5/21.

†**Massachusetts**—U. S. Eng., Park Square Bldg., Boston, plans by Sturgis Associates, Inc., engr. and archt., Boston, temporary frame bldgs., Suffolk Co.

†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, plans by Chas. T. Main, Inc., engr. and archt., 201 Devonshire St., Boston, Mass., temporary frame bldgs., Grenada Co.

†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, plans by Black & Veatch, engrs. and archts., 4706 Bway., Kansas City, Mo., temporary frame bldgs., Washington Co.

★†**Mississippi**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, Tex., dormitory units, Miss. 22-23.

★†**Mississippi**—Pub. Housing Auth., NHA, Electric Bldg., 7 and Taylor Sts., Fort Worth, Tex., dormitories, Miss-22026.

†**Mississippi**—U. S. Eng., Courthouse & Postoffice, Vicksburg, plans by Chas. T. Main, Inc., engr. and archt., 201 Devonshire St., Boston, Mass., school bldg., Madison Co.

†**Missouri**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, Ill., demountable housing, Mo. 23051.

†**Mo., Neosho**—State Bd. Health, bids soon health center, Docket Mo. 23-146. $25,600. **FWA.** D. R. Sandford, Wodruff Bldg., Springfield, archt. CD 3/24—ENR 3/24.

†**Montana**—U. S. Eng., Administration Bldg., Fort Peck, plans by Howard R. Green Co., engr. and archt., 417 1 Ave., S.E., Cedar Rapids, temporary frame bldgs., Fergus Co.

★†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, plant enlargement. $5,000,000.

†**Nevada**—Western Metals Co., Jean, plant. $341,000. Defense Plant Corp. will finance.

†**New Jersey**—U. S. Eng., 120 Wall St., New York, N. Y., plans by Bendix Aviation Corp., Bendix, bldg., Passaic Co.

†**New York**—U. S. Eng., 120 Wall St., New York, plans by I. M. Fenichel, 724 5 Ave., New York, rehabilitating laundry, Orange Co. $100,000-$500,000.

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, plans by Albert Kahn Associate Architects & Engineers, Inc., engrs. and archts., 345 New Center Bldg., Detroit, Mich., mfg. plant, Schenectady Co.

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, plans by Wm. S. Lozier, Inc., engr. and archt., 10 Gibbs St., Rochester, packing, shipping and receiving bldg. and boiler house, Onondaga Co.

★†**New York**—U. S. Eng., 960 Ellicott Square Bldg., Buffalo, expanding mfg. plant. Over $2,000,000.

†**North Carolina**—War Dpt., 20 St. and Constitution Ave., N.W., Wash., D. C., dormitories.

†**Ohio**—U. S. Eng., Wright Field, Dayton, plans by A. M. Kinney Inc., engr. and archt., Enquirer Bldg., Cincinnati, central heating plant addn.

†**Ohio**—Industrial Company plans by Moore & Dennan, 132 E. Center St., Marion, foundry addn. $88,000. Defense Plant Corp. will finance.

O., Martins Ferry—$350,000 bond election Aug. 11, high school addn., for Bd. Educ.

†**Oklahoma**—U. S. Eng., Exchange Bldg., Dallas, Tex., bldgs. $150,000.

Ore., Ashland—F. Van Duke, city atty., plans by W. Lang, Medford, hollow tile, brick hospital. $150,000. Will apply for FWA funds. Plans $35,000 bond election.

†**Pennsylvania**—Bureau Mines, Dpt. Interior, Interior Bldg., E St. between 18 and 19 Sts. N.W., Wash., D. C., experimental plant. $85,000.

★†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway, New York, N. Y., demountable housing, Pa.-36341.

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., will not take bids Aug. 3, demountable housing, Project Pa. 36292. Project deferred. CD 6/29—ENR 7/2.

†**Pennsylvania** — Pittsburgh Housing Auth., Dr. B. H. Hovde, admin., Terrace Village, Pittsburgh, 500 unit housing, Pa.-36-107, Mitchell & Ritchie, 617 Wm. Penn Way, Pittsburgh, archt.

★†**Pennsylvania**—U. S. Eng., 925 New Federal Bldg., Pittsburgh, expanding mfg. plant. Over $3,000,000.

†**Pennsylvania**—U. S. Eng., 6 and Walnut Sts., Phila., plans by Albright & Friel, Inc., engr. and archt., 1520 Locust St., Phila., bldgs., Berks Co.

Pa., Punxsutawney—Chamber of Commerce of Punxsutawney, H. C. Fleming, pres., three 1 story, no bsmnt., 20x80 ft., tile, wall bearing construction storage bldgs., Federal Laboratories, Inc., R. B. Reynolds, pres., 185 41 St., Pittsburgh, lessee.

★†**Rhode Island**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., housing, RI 1-2.

R. I., Exeter—State, Social Welfare Dpt., 40 Fountain St., Providence, plans by W. F. Fontaine, Inc., 285 Main St., Woonsocket, dairy, brick, State School for Feeble Minded. $50,000.

★†**Tennessee**—U. S. Eng., 306 U. S. Court House, Nashville, bldgs., etc. $2,000,000-$3,000,000.

†**Texas**—Pub. Housing Auth., NHA, Electric Bldg., 7 and Taylor Sts., Fort Worth, permanent housing, Tex. 41331, and dormitory, Tex. 4133.

★†**Texas**—Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., dwellings. $550,000.

†**Texas**—U. S. Eng., Cotton Exch. Bldg., Dallas, bldgs. $150,000.

†**Texas**—U. S. Eng., Fort Sam Houston, bldgs. $150,000.

†**Texas**—U. S. Eng., Fort Sam Houston, plans by G. Gill, engr. and archt., Burt Bldg., Dallas, warehouse. $45,000.

★†**Texas**—U. S. Eng., 231 W. Main St., Denison, expanding mgf. plant. Over $2,000,000.

†**Texas**—U. S. Eng., Fort Sam Houston, bldg. $250,000.

Texas—U. S. Eng., San Antonio, plans by Grayson W. Gill, Great Natl. Life Bldg., Dallas, addnl. warehouse facilities, Tarrant Co.

†**Texas**—U. S. Eng., Fort Sam Houston, military housing, Spec. 42-219. Plans deposit $25.

★†**Texas**—Dow Chemical Co., Freeport, plant. $18,000,000. Federally financed.

†**Texas**—Industrial Company, plans by Hedrick & Lindsley, 818 Southern Standard Bldg., Houston, housing. $250,000. Federally financed.

†**Texas**—U. S. Eng., Fort Sam Houston, bids soon, bldgs., utilities, etc. Spec. 42-246. Plans deposit $25.

★†**Virginia**—Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., permanent housing, Va. 7-1.

★†**Virginia** — Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., construction deferred demountable housing, Va. 44163. CD 5/11—ENR 5/14.

★†**Virginia** — Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., construction deferred demountable housing, Va. 44165. CD 5/11—ENR 5/14.

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, plans by Young & Richardson, engrs. and archts., Central Bldg., Seattle, storage bldgs., Spokane Co.

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, plans by W. S. McCrea, Jr., engr. and archt., Perkins Bldg., Tacoma, bldgs., King Co.

†**Washington** — U. S. Eng., 800 3 Ave., Seattle, bldg.

★†**West Virginia**—U. S. Eng., Chesapeake and Ohio Bldg., Huntington, expansion mfg. plant. Over $3,000,000.

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, plans by Consoer, Townsend & Quinlan, 211 N. Wacker Dr., Chicago, Ill., temporary frame bldgs., Dane Co.

★†**Wisconsin**—Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., dormitories, Wis. 47023-T; demountable housing, Wis. 47022; dormitories, Wis. 47024; permanent housing, Wis. 47025.

†**Wisconsin**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, Ill., permanent housing, Wis. 1-1.

†**Pacific Northwest**—U. S. Eng., Textile Tower, Seattle, Wash., bldg.

B. C., Chilliwack—Dominion Govt., Ottawa, Ont., hospital. $150,000. Dpt. P. Wks., C. D. Sutherland, Ottawa, Ont., ch. archt.

B. C., New Westminster—Wartime Housing Ltd., 55 York St., Toronto, Ont., bids soon 62 houses and boarding house. $175,000.

B. C., Vernon—Wartime Housing Ltd., 55 York St., Toronto, Ont., bids soon 50 duplex houses. $175,000-$190,000.

N. B., St. John—Abattoir, etc. $50,000.

Ont., Collingwood—General & Marine Hospital Bd., Collingwood, plans by J. Wilson, 14 Hurontario St., hospital. $150,000.

Ont., Dundas—Wartime Housing Ltd., 55 York St., Toronto, 50 single family dwellings. $50,000. D. Beam, c/o owner, engr.

Ont., Hamilton—Wartime Housing, Ltd., 55 York St., Toronto, bids soon, temporary bldgs. for housing 500 women workers. $250,000.

Que., Joliette—Province of Quebec, Quebec Quebec City, tobacco manufactury. $40,000. Dpt. Agriculture, Quebec City, engrs.

Que., Montreal — Municipality, plans by Gascon & Parent, 934 E. Ste. Catherine St., public bath, Rosemont Blvd. $200,000. CD 4/28—ENR 4/30.

Que., St. Joseph de Sorel—De Filitrault School Comm., St. Joseph de Sorel, 3 story school. $150,000.

BIDS ASKED

Bids Asked August 11

†**D. C., Wash.**—Dpt. Commerce, Natl. Bureau Standards, Connecticut Ave. and Upton St. N.W., temporary experimental structure, bldg., Connecticut Ave. and Upton St. N.W.

PUBLIC BLDGS. (Bids Asked, Cont'd.)

Bids Asked August 12

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, cold storage facilities, Vernon Parish.

†**N. J., Bellmawr**—Federal Works Agency, 2 Lafayette St., New York, N. Y., grade school, Docket NJ 28-125F; J. N. Hettel and Mayer and Whittlesey, 501 Cooper St., Camden, archts.; adv. ENR 8/6. CD 7/30—ENR 6/4.

†**S. C., Columbia**—City, F. Marshall, mayor, City Hall, 46x71 ft. sub-station, Docket S. C. 38-124, Shandon Sect. for Fire Dpt. $30,000. FWA. H. Singley, 1508 Washington St., archt.

Ont., London—Secretary Dpt. Munitions & Supply, Ottawa, Walsely Barracks addn. for Dpt. Natl. Defense, Ottawa. $175,000.

Bids Asked August 20

†**Pennsylvania**—Allegheny County Housing Auth., F. L. Palmer, executive dir., 201 County Office Bldg., Pittsburgh, housing, Project Pa. 36105, for NHA. Extended date. P. T. Farrell, 309 4 St., Pittsburgh, archt. CD 7/6—ENR 7/9.

†**Pa., Wyndmoor**—Div. Purchases, Sales & Traffic, Dpt. Agriculture, The Mall, 12 and 14 Sts., Wash., D. C., low pressure process steam sys. at Eastern Regional Research Laboratory, Inv. 83-43.

Bids Asked August 21

†**Calif., San Diego** — Pub. Bldgs., Admin., North Interior Bldg., Wash., D. C., Linda Vista Fire Station.

Bids Asked September 11

†**Pennsylvania**—Pub. Housing Auth., NHA., 270 Bway., New York, N. Y., housing, Pa. 35-265. Bids date change. Zantzinger & Borie, Architect's Bldg., Phila., archts. CD 7/24—ENR 7/30.

Bids Asked September 16

†**New Jersey**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., housing, NJ 28044. Extended date. F. H. Radey, 101 N. 7 St., Camden, archt. CD 7/6—ENR 7/9.

Bids Asked

★†**Illinois**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, defense housing Project Ill. 110-83, Alton Associated Architects, 115 Market St., Alton, archts. CD 7/27—ENR 7/30.

★†**Oklahoma**—U. S. Eng., Box 61, Tulsa, bldgs.; paving, constructing streets and roads, $260,000; sanitary sewerage sys., over $25,000; water sys., over $15,000; outdoor overhead electrical distr. sys. $40,000; plans deposit $50 each foregoing project; installing natural gas distr. lines, facilities over $25,000, plans deposit $25.

★†**Texas**—U. S. Eng., 231 W. Main St., Denison, laundry plant, facilities. $650,000. Plans deposit $50.

†**Texas**—U. S. Eng., Fort Sam Houston, bldg., facilities, utilities, Spec. 42-259. Plans deposit $25.

LOW BIDDERS

†**Conn., New London**—Lawrence Memorial Hospital, Ocean Ave., July 31, maternity wing, from Cuzzi Bros. & Singer, Inc., 10 S. 2 Ave., Mount Vernon. $313,580. FWA. CD 7/14—ENR 7/16.

★†**Delaware**—Public Housing Auth., NHA. Temporary Bldg. No. 2, 18 and D Sts. N.W., Wash., D. C., July 30, 180 unit housing, Proj. Del 1-2, from Tobias Heller & Co., 441 Lexington Ave., New York, N. Y. $765,000. CD 7/15—ENR 7/23.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, June 24, civilian housing facilities, Inv. 1096-43-29, from J. A. Harper, Crowville.

†**South Carolina**—U. S. Eng., Fort Jackson, July 30, bldgs., from J. C. Heslep Co., Carolina Bank Bldg., Columbia. CD 7/21—ENR 7/23.

CONTRACTS AWARDED

†**Arizona**—U. S. Eng., Albuquerque, N. M., temporary frame bldgs., Cochise Co., to Elder R. Morgan & Co., San Marino, Calif., **$100,000-$500,000.**

★†**Arizona**—U. S. Eng., Albuquerque, N. M., frame storage bldgs., Coconino Co., to Jerome A. Utley, 723 E. Ten Mile Rd., Detroit, Mich., **$1,000,000-$5,000,000.**

★†**Arizona**—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., temporary frame bldgs., Pinal Co., to J. S. Sundt & L. M. White, 440 S. Park Ave., Tucson, **$1,000,000-$5,000,000.**

★†**Arkansas**—U. S. Eng., P. O. Box 97, Memphis, Tenn., temporary frame bldgs., Lawrence Co., to Foster & Creighton Co., Forcum-James Co., Oman Constr. Co., Dyersburg, Tenn. **$1,000,000-$5,000,000.**

†**Arkansas**—U. S. Eng., 300 Bway., Little Rock, bldgs., etc., to Cowen & Norton, McAllister, Okla.

★†**Arkansas**—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, Miss., bldgs., to A. J. Rife Constr. Co., 2808 Inwood St., Dallas, Tex. **$3,000,000.** CD 6/23—ENR 7/2.

†**Arkansas**—U. S. Eng., Gay Bldg., Little Rock, temporary frame bldgs., Pulaski Co., to Thoas P. Coogan, Inc., Pine Bluff, **$100,000-$500,000.**

★†**Arkansas**—U. S. Eng., Postoffice & Courthouse, Vicksburg, Miss., frame bldgs., roads, Desha Co., to Linebarger-Senne Constr. Co., Rector Bldg., Little Rock, **$1,000,000-$5,000,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, temporary frame bldgs., San Bernardino and Riverside Counties, to J. E. Burrell & Sons, Long Beach. **$100,000-$500,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, temporary frame bldg., San Diego Co., to O. L. Carpenter, San Diego. **$100,000-$500,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, temporary frame bldgs., Riverside Co., to J. E. Burrell & Sons, Long Beach, **$100,000-$500,000.**

★†**California** — U. S. Eng., Wright Bldg., Sacramento, addnl. steel, concrete storage bldgs., Sierra Co., to Bressi & Beranda Constructors, Inc., and A. Teichert & Sons, Inc., 1846 37 St., Sacramento, **$500,000-$1,000,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, laboratory, San Diego Co., to L. C. Anderson Co., 3535 Herman Ave., San Diego, under **$50,000.**

★†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, housing, to Pacific Builders, 312 E. Alisal St., Salinas, under **$1,000,000.** Awarded 7/29.

★†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, altering bldg., incl. repair station, to C. M. Teigland, 773 University Ave., Berkeley, under **$1,000,000.** Awarded 7/27.

★†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, warehouse, to P. J. Maurer & Son, 3031 E St., Eureka, under **$1,000,000.** Awarded 7/27.

★†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, cold storage facilities, San Francisco Co., to Lewis Constr. Co., 354 Hobart St., Oakland, under **$1,000,000.** Awarded 7/27.

★†**California** — U. S. Eng., Wright Bldg., Sacramento, bldgs., facilities, Contrs. 7 and 8, to A. Teichert & Son, Inc., Box 1113, Sacramento, **$500,000-$1,000,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, open storage sheds, bldgs., No. 523, to John H. Simpson, 516 S. Raymond Ave., Pasadena. Est. over **$40,000.** Former contract rescinded. CD 7/28—ENR 7/30, under CA.

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, frame storage bldg., Alameda Co., to F. J. Maurer & Son, Eureka, **$100,000-$500,000.**

†**California**—U. S. Eng., Wright Bldg., Sacramento, temporary frame bldgs., etc., Sacramento Co., to Moore & Roberts, 693 Mission St., San Francisco, **$100,000-$500,000.**

†**California**—U. S. Eng., Wright Bldg., Sacramento, temporary frame bldgs., utilities, appurtenances, San Joaquin Co., to Standard Bldg. Co., 20 Ave. and Judah St., San Francisco, **$100,000-$500,000.**

†**California**—U. S. Eng., Wright Bldg., Sacramento, constructing, remodeling frame bldgs., Sacramento Co., to Frank Maloney, 1915 S. St., Sacramento, **$100,000-$500,000.**

Calif., Berkeley—Regents of University of Calif., laboratory and shop bldg. for 184-inch Cyclotron, to J. E. Branagh, 105 Sheridan St., Piedmont, **$82,500.** A. Brown, Jr., 251 Kearny St., San Francisco, archt.

†**Connecticut** — U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., bldg. alterations, to F. G. Roy & Sons Co., 21 Silver St., Springfield, Mass.

★†**Connecticut**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., temporary dwelling units, Conn. 6018, to Clinton G. Bush Lumber Corp., 370 Lexington Ave., New York, N. Y., **$1,386,748.**

†**D. C., Wash.**—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., addns., alterations cold storage facilities, to L. E. Breuninger & Sons, Inc., 1730 K St. N.W., Wash., D. C., under **$50,000.**

★†**Florida**—U. S. Eng., Courthouse, Mobile, Ala., temporary frame bldgs., Franklin, Co., to Williams Constr. Co., Columbus, Ga., **$1,000,000-$5,000,000.**

★†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, bldgs., Inv.-Neg.-Jax-43-44, to H. L. Heath, 3221 S.W. 25 St., and J. H. Mann & Son, 1646 N.W. 28 St., Miami, awarded 7/19***bldgs., Inv. Jax-43-114, to C. T. Dawkins, 2424 Chicago Ave., Tampa, awarded 7/20. Each contract less than **$1,000,000.**

†**Georgia**—U. S. Eng., 494 Spring St. N.W., Atlanta, temporary frame storage bldg., Cobb Co., to Tri State Constr. Co., 114 Ellis St. N.E., Atlanta, **$100,000-$500,000.**

★†**Georgia**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Atlanta, housing, to Mion Const. Co., 377 Techwood Dr. N.W., Atlanta, approx. **$2,700,000.** Abren & Robeson, Perry Bldg., Brunswick, archts.

†**Georgia**—U. S. Eng., [illegible] Atlanta, temporary fram[illegible] Co., to Christian & Bell [illegible] N.W., Atlanta, $100,000-$[illegible]

★†**Georgia**—U. S. Eng[illegible] Savannah bldgs., to [illegible] Const. Co., Augusta.$500,[illegible]

†**Georgia**—U. S. Eng., [illegible] Ala., frame bldg., stora[illegible] hoochee Co., to Williams [illegible] bus, **$100,000-$500,000.**

†**Georgia** — U. S. Eng[illegible] Savannah, temporary fram[illegible] Liberty Co., to Artley & [illegible] Savannah, **$100,000-$500,000.**

†**Illinois**—U. S. Eng., Co[illegible] house, St. Louis, Mo., con[illegible] Sangamon Co., to Midwest [illegible] Co., 221 N. Lasalle St., **$500,000.**

†**Illinois**—U. S. Eng., C[illegible] Rock Island, temporary fr[illegible] Carroll Co., to Savanna Co[illegible]

★†**Indiana**—U. S. Eng., [illegible] Louisville, Ky., frame bl[illegible] to O'Driscoll & Grove, Inc., [illegible] H. L. Fischer, Inc., 415 Le[illegible] York, N. Y., **$1,000,000-$5,000,000.**

†**Indiana**—U. S. Eng., [illegible] Louisville, Ky., mfg. plant[illegible] Russ & Harrison, 1001 Archts. [illegible] and Leslie Colvin, 507 Bd. [illegible] Indianapolis, **$50,000-$100,000.**

†**Indiana**—U. S. Eng., Federal Bldg., Louisville, Ky., general contract [illegible] bldgs., to A. Farnell Blair, Inc., [illegible] electrical work to C. A. Hopper, Madison, Wis. Est. over **$5,000,000.** R. F. Daggett, Edinburg, archt. C. Hurd, Columbus, consult. engr. CD 6/4—ENR 6/11.

★†**Iowa**—U. S. Eng., Clock Tower Bldg., Rock Island, Ill., temporary frame bldgs., Polk Co., to Woodcrest Constr. Co., and Rosoff Bros., Inc., 369 Lexington Ave., New York, N. Y., **$1,000,000-$5,000,000.**

†**Kansas**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., temporary frame bldgs., Geary Co., to Martin K. Eby, 859 Litchfield St., Wichita, **$100,000-$500,000.**

†**Kansas**—U. S. Eng., 416 Wright Bldg., Tulsa, Okla., frame bldgs., Montgomery Co., to Star Constr. Co., Oklahoma City, Okla. **$100,000-$500,000.**

★†**Kentucky**—U. S. Eng., Postoffice & Courthouse, Cincinnati, O., temporary frame bldgs., Madison Co., to Engstrom & Wyse, Main St., Wheeling, W. Va., $500,000-$1,000,000.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, temporary frame bldgs., Rapides Co., to J. M. Brown Constr., Shreveport, **$100,000-$500,000.**

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans motor repair shops, facilities, Rapides Parish, to Rabalais & Murphy, Bunkie, **$50,000-$100,000.** Awarded 7/22.

★†**Maine** — Pub. Housing Auth., NHA, 24 School St., Boston, Mass., defense housing, Me. 17031, to Casper Ranger Constr. Co., 6 Newton St., Holyoke, Mass., $2,046,553. CD 6/23—ENR 6/25, under LB.

†**Maryland**—U. S. Eng., Standard Oil Bldg., Baltimore, frame bldgs., Allegany Co., to G. F. Hazelwood Co., Cumberland, $50,000-$100,000.

†**Massachusetts**—U. S. Eng., Park Square Bldg., addnl. Boston, Mass., frame bldgs., storage areas, track exten., utilities, Middlesex Co., to Carlo Bianchi & Co., Inc., Framingham, **$100,000-$500,000.**

Mass., Hudson—Town, Electric Light & Power Dpt., Town Hall, 1 story, brick power plant addn., to G. Bonazzoli & Sons, Washington St. Est. **$40,000.** CD 7/22—ENR 7/30.

†**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, temporary frame bldgs., Macomb Co., to C. N. Board, East Detroit, **$100,000-$500,000.**

†**Mississippi**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., concrete and steel storage bldgs., Monroe Co., to C. Weaver Jackson and S. & W. Constr. Co., Shrine Bldg., Memphis, Tenn. **$100,000-$500,000.**

†**Missouri**—U. S. Eng., 800 Courthouse & Customhouse, St. Louis, cold storage house and addn., warehouse, to Vernon Hicks Constr. Co., 6504 Nashville Ave., St. Louis.

†**Montana** — U. S. Eng., Administration Bldg., Fort Peck, temporary frame bldgs., incinerator, also sewage treatment plant, elevated water tank, pump, Cascade Co., to Victory Constr. Co., Great Falls, **$100,000-$500,000** ea.

†**Nevada**—U. S. Eng., Wright Bldg., Sacramento, Calif., temporary frame bldgs., water, sewer, storm drain and electrical sys., streets, sidewalks, Washoe Co., to McDonald & Kahn, Inc., Financial Center Bldg., San Francisco, Calif. **$100,000-$500,000.**

†**New Jersey**—U. S. Eng., Picatinny Arsenal, Dover, change houses, tank storage bldg., to Frank Briscoe & Co., 287 S. 19 St., Newark. Bids 7/27.

PUBLIC BLDGS. (Contracts Awarded, Cont'd.)

†**New Jersey**—U. S. Eng., Penn Mutual Bldg., Phila., Pa., addnl. facilities, to A. A. LaFountain, Inc., 161 Beech St., Hackensack. **$100,000-$500,000.**

†**New Jersey**—U. S. Eng., Penn-Mutual Bldg., Phila., Pa., brick storage bldg., facilities, to Gumina Const. Co., 14 Georges Rd., New Brunswick.

†**New Jersey**—U. S. Eng., Penn Mutual Bldg., Phila., Pa., addnl. facilities, and frame bldgs., to John N. Webster, 320 Amboy Ave., Metuchen. **$100,000-$500,000.**

†**New Mexico**—U. S. Eng., Albuquerque, temporary bldgs., electric, water and sewage facilities, Grant Co., to Neill Singleton, Amarillo, Tex. **$100,000-$500,000.**

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, mfg. plant, Schenectady Co., to Walter Kidde Constructors, Inc., 140 Cedar St., New York.

†**New York**—U. S. Eng., 960 Ellicott Square Bldg., Buffalo, welding plant, Jefferson Co., to New York Air Brake Co., Starbuck Ave., Watertown. **$50,000-$100,000.**

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, power plant, Albany Co., to T. C. Brown, Schenectady. **$100,000-$500,000.**

†**New York**—Industrial Company, manufacturing plant to Foley Bros. Inc., Vermilyea St., Pleasantville. **$5,000,000.** Francisco & Jacobus, 511 5 Ave., New York, engrs. Federally financed.

†**Ohio**—U. S. Eng., Wright Field, Dayton, power plant, to B. G. Davis Co., 1518 E. 1 St., Dayton. Est. **$50,000-$100,000.**

†**Ohio**—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., group bldgs., to De Hamel Const. Co., Citizen Bldg., Cleveland. **$100,000-$500,000.** Awarded 7/21.

†**Ohio**—Industrial Company, office bldg., to Schirmer-Peterson Co., 6830 Beaver Ave., Cleveland. Est. **$250,000.** Awarded 7/27. Defense Plant Corp. will finance.

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, temporary frame bldgs., Garfield Co., to P. B. Odom Constr. Co., Inc., 3621 N.W. 10 St., Oklahoma City. **$100,000-$500,000.**

★†**Oklahoma**—U. S. Eng., 231 W. Main St., Denison, Tex., bldgs., facilities, utilities, to Hair, Christie & Mason, Wichita Falls, Tex., **$1,000,000-$5,000,000.** Bids about 7/2.

†**Oklahoma**—U. S. Eng., Citizens Bank Bldg., Denison, Tex., frame bldgs., Tillman Co., to David H. Cowdin, 411 S. Haskell St., Dallas, Tex. **$100,000-$500,000.**

★†**Oklahoma**—Yards & Docks, Navy Dpt., 18th St. and Constitution Ave., Wash., D. C., plant to Brown & Root and J. W. Bellows Constr. Co., P. O. Box 3, Houston. To exceed **$5,000,000.**

Oklahoma—U. S. Eng., 231 West Main St., Denison, Tex., housing, to Watson Co., 1927 S. Akard St., Dallas, Tex.

†**Pennsylvania**—U. S. Eng., Standard Oil Bldg., Baltimore, Md., concrete, steel bldgs., Franklin Co., to Moyer Bros., 2605 Beale Ave., Altoona. **$100,000-$500,000.**

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, concrete buildings, utilities, Richland Co., to T. E. Moore and J. K. Holcombe, Hook Bldg., Columbia. Est. **$50,000** to **$100,000.**

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, temporary frame bldgs., Greenville Co., to D. M. Rickenbaker, Union, **$100,000-$500,000.**

†**Tennessee**—U. S. Eng., 306 U.S. Courthouse, Nashville, frame bldg., Rutherford Co., to Rule & Murphy Co., 1281 Taylor Ave., St. Paul, Minn. Est. **$100,000** to **$500,000.**

†**Texas**—U. S. Eng., San Antonio, temporary frame bldgs., Bexar Co., to A. E. Rheiner & Co., and A. P. Rheiner & Son, 1003 Bailey Ave., San Antonio. **$100,000-$500,000.**

★†**Texas**—U. S. Eng., 231 W. Main St., Denison, temporary frame bldg., Dallas Co., to A. J. Rife Constr. Co., 2808 Inwood St., Dallas. **$500,000-$1,000,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, steam engine bldg., to H. A. Miller & Son, Terrell Wells (San Antonio), under **$50,000.** Bids 7/20, awarded 7/25. CD 7/14.

†**Texas**—U. S. Eng., Albuquerque, N. M., temporary frame bldgs., El Paso County, to R. E. McKee, 1918 Texas St., El Paso. Est. **$100,000-$500,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, bldgs., Spec. 42-185, to Lee Christy, Builders Exchange Bldg., San Antonio. **$100,000-$500,000.** Awarded 7/22.

†**Texas**—U. S. Eng., Federal Bldg., Galveston, storage bldg. facilities, to Ballantyne Engr. Co., 2100 Commerce Bldg., Houston, under **$50,000.**

★†**Texas**—U. S. Eng., San Antonio, temporary frame bldgs., to J. W. Bateson Co., Paris, **$1,000,000-$5,000,000;** railroad spurs, to Shortall, O'Connor & Herman, Dallas, **$50,000-$100,000**•••electric, water and sewage facilities, to Osage Constr. Co., Dallas, **$100,000-$500,000,** all foregoing in Val Verde Co. CD 7/24.

★†**Texas**—U. S. Eng., San Antonio, temporary frame bldgs., to Walsh & Burney Co., 928 N. Flores St., San Antonio, **$1,000,000-$5,000,000;** temporary frame bldgs., to J. E. Dickey, 216 Eleanor St., San Antonio, **$500,000-$1,000,000,** both Hays Co. CD 7/23—ENR 7/30. under LB.

†**Texas**—U. S. Eng., 416 Wright Bldg., Tulsa, Okla., temporary frame bldgs., Gray Co., to Erbelding Constr. Co., 2621 S. Trenton St., Tulsa, Okla. **$100,000-$500,000.**

†**Texas**—U. S. Eng., 231 W. Main St., Denison, frame bldgs., Wichita Co., to Star Manufacturing Co., 3012 S. Stiles St., Oklahoma City, Okla., **$100,000-$500,000.**

†**Texas**—U. S. Eng., 231 W. Main St., Denison, frame bldgs., Tarrant Co., to Star Manufacturing Co., 3012 S. Stiles St., Oklahoma City, Okla., **$100,000-$500,000.**

†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, frame hospital bldgs., Salt Lake Co., to R. H. Parr, 206 W. 112 St., Los Angeles, Calif. **$100,000-$500,000.**

†**Virginia**—U. S. Eng., 415 P. O. and Court House Bldg., Norfolk, temporary frame bldgs., Norfolk Co., to Doyle & Russell & Wise Contg. Co., Inc., Central Natl. Bank Bldg., Richmond, and Virginia Engineering Co., Inc., Newport News. **$100,000-$500,000.**

†**Virginia**—U. S. Eng., 415 Post Office & Court House Bldg., Norfolk, altering, reconstructing office bldg., Norfolk Co., to James King Co., Inc., Central Natl. Bank Bldg., Richmond, and Virginia Engineering Co., Inc., Newport News. **$100,000-$500,000.**

†**Washington**—U. S. Eng., Textile Tower, Seattle, utility shops and yard, to S. Bergesen and Wick & Dahlgren, 1367 30 Ave. S., Seattle. **$50,000-$100,000.**

†**Washington**—U. S. Eng., Pittock Blk. S.W., 10 Ave. and Washington St., Portland, Ore., brick, concrete engineering shop and temporary frame officers' mess bldg., Walla Walla Co., to H. D. Merrill Constr. Co., Helena, Mont., **$100,000-$500,000.** Bids 5/11. CD 5/7.

★†**Washington**—U. S. Eng., 800 3 Ave., Seattle, concrete, steel frame structures, King Co., to Sound Constr. & Eng. Co., Northern Life Bldg., Seattle. **$1,000,000-$5,000,000.**

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, frame bldgs., Dane Co., to Leslie R. Porter Co., 126 Park Ave., Beverly, Mass., **$100,000-$500,000.**

†**Wisconsin**—U. S. Eng., 222 West North Bank Dr., Chicago, Ill., frame bldgs., Monroe Co., to Jos. A. Bass Co., 332 Sexton Bldg., Minneapolis, Minn., and Paul Steenberg Construction Co., South St. Paul St., St. Paul, Minn. **$100,000-$500,000.**

★**B. C., Vernon**—Dpt. National Defense, Ottawa, Ont., accommodation for Brigade Camp, to Bennett & White Constr. Co., Ltd., 510 W. Hastings St., Vancouver, about **$1,000,000.**

★**Ont., Ottawa**—Dpt. National Defense, Ottawa, warehouse for military stores, to A. I. Garvock, Regent Bldg., Spark St., **$710,000.** Awarded 7/29. C. D. Sutherland, Dpt. P. Wks., archt.

Ont., Peterboro—Wartime Housing, Ltd., 55 York St., Toronto, 125 addnl. houses, to Eastwood Const. Co., Ltd., Dominion Bank Bldg., George St., about **$250,000.** Additional to CD 5/11—ENR 5/14, under CA.

COMMERCIAL BUILDINGS

PROPOSED WORK

Calif., Albany — E. P. Madigan, Golden Gate Turf Club, Albany, converting horse race track into barracks, apartments and trailer camp.

Calif., Stockton—Central Lumber Co., 1001 E. Channel St., 100 one story frame residences, Pacific Gardens Area. $400,000.

★**Calif., Stockton**—Golden Gate Realty Co., 2254 E. Poplar Lane and J. J. Mangusto, 135 N. California St., operating as Home Builders, Inc., 168 one story, frame residences. $672,000.

Conn., North Haven—Woodhill Homes, Inc., 167 Water St., New Haven, homes, Middletown Hy. $600,000.

Kan., Parsons—Sisters of St. Joseph, bids soon, hospital. $160,000. Overend & Boucher, Brown Bldg., Wichita, archts. CD 6/9—ENR 6/11.

★**Kan., Wichita**—Watson & Pence, A. J. Watson, pres., Bitting Bldg., apartment houses. $800,000.

Mass., Springfield — Freeman & Gerla, 551 5 Ave., New York, N. Y., sketches housing units, Berkshire Ave. $600,000.

N. J., Caldwell—Whitman Constr. Co., 149 Samull Ave., W. Caldwell, plans by C. Willard Wands, 309 Bloomfield Ave., 110 family, 2 story, bsmnt., frame brick, garden apartments.

N. J., East Rutherford—Lake View Estates, 50 Court St., Brooklyn, N. Y., plans by M. B. Weissman, 185 Montague St., Brooklyn, N. Y., thirty-six 2 story, 20x45 ft. brick veneer, asbestos shingle homes. $252,000.

★**N. J., Linden**—Gross Morton Corp., 150-16 Jamaica Ave., Jamaica, N. Y., plans by L. F. Feinen, 32 Walnut St., Newark, two hundred seventy-five 1½ story, bsmnt., frame, asbestos shingle homes. $1,375,000.

N. J., Linden — Liberty Homes, Inc., 650 Ocean Ave., Brooklyn, N. Y., plans by A. J. Silverstein, 24 William St., Newark, twenty-six 2 story, bsmnt., 24x32 ft. frame, brick veneer residences. $182,000.

O., Avon Lake—Klaist Const. Co., P. Klaist, in charge, 19359 Laurel Ave., Rocky River, 30 frame homes. $180,000.

O., Cleveland—G. A. Zorn, 78 Overlook Pl., Bedford, 50 frame homes. $360,000.

Tex., Wichita Falls—Sheppard Estates Addition, c/o F. Abel, 1211 20 St., Wichita Falls, plans by C. Armstrong, Burnet Bldg., and P. G. Willard, N. P. Anderson Bldg., both Fort Worth, 34 one story, 30x36 ft. dwellings. $150,000.

CONTRACTS AWARDED

Calif., Altadena—Churchill Constr. Co., 5655 Wilshire Blvd., Los Angeles, 32 frame stucco dwellings. Owner builds. $260,000.

Calif., Livermore—Bridge Investment Co., 16 California St., San Francisco, 48 one story, frame residences, northern addn. to Livermore. Owner builds. **$172,000.** P. Hammarberg, 2 Norwood Dr., Berkeley, archt.

★**Calif., Long Beach**—Home Investment Co., 2679 Sante Fe Ave., 160 five room frame, stucco, dwellings, West Long Beach. Owner builds. **$500,000.**

Calif., Stockton—R. V. Earl, 1312 E. Stadium Dr., 53 one story, frame residences, Stadium Dr. Owner builds. **$212,000.**

Calif., Stockton—Flotill Products, Inc., & Curtis M. Robbins, 238 N. Sutter St., 80 1 story, frame residences, Morningside tract. Owner builds. **$320,000.**

Calif., Stockton—Golden Gate Realty Co., 2254 E. Poplar Lane, 70 one story, frame residences, El Ricardo Tract. Owner builds. **$280,000.**

Calif., Stockton—Inman Inc., 307 E. Weber St., Stockton, 100 one story, frame residences, North Stockton. Owner builds. **$400,000.**

Calif., Stockton—F. V. Mayo, 931 N. Eldorado St., 39 one story, fame residences, California St. Owner builds. **$156,000.**

Calif., Stockton—Sims & Grupe, operating as Alpine Milling Co., 413 E. Weber Ave., 39 one story, frame residences, South Stockton and 21 residences, Alpine Ave. Owner builds. **$240,000.**

Calif., South Gate—South Gate Properties, 10419 Long Beach Blvd., 46 five and six room dwellings, Tweedy Blvd., Kaufman, Annette and Hildreth Aves. to United House Builders, 10419 Long Beach Blvd., **$172,600.**

Ill., Cicero—Boulevard Manor Defense Homes, Inc., c/o W. W. Kriebel, 1 N. La Salle St., Chicago, housing, to Christensen Constr. Co., Inc., 4503 Wrightwood Ave., Chicago; and to Sullivan Constr. Co., 400 W. Madison St., Chicago. Total est. **$400,000.** Vitzthum & Burns, 1 N. La Salle St., Chicago, archts.

Kan., Pittsburg—Tri-State Development Co., J. A. Penimore, mgr., Pittsburg, 72 dwellings, southeast section city, to Rau Constr. Co., 2409 Harrison St., Kansas City, Mo. Est. **$300,000.**

Mo., Carthage—M. P. Constr. Co., R. E. Mayes, pres., Hazel and St. Louis Ave., 34 residences, day labor. **$160,000.**

Mo., St. Louis County—Schuermann Building & Realty Co., 6104 Easton Ave., St. Louis, 60 bungalow type homes, Lackland Rd., Meadowbrook Homes Subdivision, own forces. Over **$150,000.**

N. J., Belleville—Victory Village, Inc., 24 Commerce St., Newark, 28 garden apartment units, 2 story, part bsmnt., 33x80 ft. frame, brick veneer, separate contracts. Seelig & Finklestein, 153 Pierrepont St., Brooklyn, N. Y., archts. CD 6/9—ENR 6/11.

★**N. J., Lodi**—Woodmere Homes, Inc., Essex St., one hundred 2 story, bsmnt., frame, brick homes, day labor. **$500,000.** P. S. Simon, 210 Main St., Hackensack, archt.

★**N. J., Rahway**—Home Div. Corp., 24 Madison Ave., New York, N. Y., one hundred four 2½ story, bsmnt., 23x29 ft. homes, separate contracts. **$750,000.** A. Weiser, 24 Madison Ave., New York, N. Y., archt.

O., Cleveland—Syndicate, c/o S. Galvin, Guardian Bldg., 7 eight family apartment bldgs., 3 story, bsmnt., brick, to Max Burkons & Son Constr. Co., 7113 Euclid Ave. Est. **$250,000.** Awarded 7/22. CD 7/23.

Pa., Pittsburgh—East Liberty Presbyterian Church, C. A. Mayfield, bus. mgr., 116 S. Highland Ave., 1 story, 20x28 ft., limestone memorial chapel (Mellon Church), Highland and Penn Sts., to J. L. Stuart, Oliver Bldg. Est. **$150,000.** Cram & Ferguson, 248 Boylston St., Boston, Mass., archts.

Tex., Houston—Housing, Inc., Esperson Bldg., F. Sharp, pres., 57 frame type dwellings. Owner builds. **$200,000.** CD 7/27—ENR 7/30.

COMMERCIAL BLDGS., etc. (Cont'd.)

Wis., Milwaukee—Security Homes, Inc., c/o Givan Co., 735 N. Water St., prefabricated housing, to Northwest Wood Products Co., Wonewoc. A. H. Siewert, 2309 N. 36 St., archt. CD 7/23.

INDUSTRIAL BUILDINGS

PROPOSED WORK

Calif., Alameda—PLATE SHOP—Bethlehem Steel Co., Webster St., soon lets contract plate shop. Over $40,000.

Calif., Bishop—SAWMILL—Inyo Lumber Co., Bishop, rebuilding sawmill. $50,000.

Calif., Crescent City — CANNERY — Hallmark Cannery Co., Oregon, crab and fish cannery and dock, waterfront. Over $40,000.

Calif., Marysville—PLANT—Petroleum Products Co., Marysville, rebuilding oil plant, destroyed by fire. $85,000.

Calif., Oakland—PLANT—Par Soap Co. of Oakland, 767 85 Ave., plans by Wurster & Sanger, Inc., 5201 S. Kenwood St., Chicago, Ill., reconstructing 2 story plant. Over $40,000. CD 5/19—ENR 5/21.

Calif., Smith Flat—FACTORY—Placerville Lumber Co., Placerville, box factory. Over $40,000.

Connecticut — FACTORY — Industrial Company, soon lets contract, brick factory unit, office facilities. Over $40,000. Albert Kahn Associate Archts. & Engrs., 345 New Center Bldg., Detroit, Mich., engrs.

Conn., Glenbrook (sta. Stamford)—FACTORY—Laminated Shim Co., Union St., C. N. Aborn pres., brick factory addn., Union St. and Kirkham Pl. $40,000. L. F. Caproni, 1221 Chapel St., New Haven, engr.

Conn., Meriden—FACTORY—Conn. Tel. & Electric Co., Brittania St., 3 story factory addn. $40,000.

Conn., New Haven—FACTORY—Wire Rope Corp. of America, Inc., 464 Congress Ave., brick factory exten., Howard Ave. Over $40,000.

Indiana—PLANT—Seagram & Sons, Inc., c/o H. F. Wilkie, Lawrenceburg, Ind., brick, concrete plant, Dearborn Co. Over $5,000,000.

Ind., Evansville—PLANT—Link-Track Engineering Co., 230 N. Michigan Ave., Chicago, Ill., altering plant. Over $75,000 incl. equip.

Ind., Indianapolis—PLANT — Ermet Products Co., 2100 Caroline Ave., rebuilding plant. Over $40,000 incl. equip.

Ind., Tell City — PLANT — Kenrad Radio Tube Co., Owensboro, Ky., altering plant. Over $100,000 incl. equip.

La., Evangeline—PLANT—Evangeline Pepper & Food Products Co., Opelousas, sweet potato, pepper and vegetable dehydrated plant. $50,000.

La., Evangeline—PLANT—Paprika Co., Inc., Opelousas, sweet potato and vegetable dehydrated plant. $50,000.

Md., Sparrows Point (br. Baltimore)—TOOL SHOP—Bethlehem Steel Co., Sparrow Point, soon lets contract, fdns. for tool shop.

Neb., Fremont — GRAIN ELEVATOR — Updike Grain Co., Fremont, rebuilding grain elevator, destroyed by fire. Over $40,000.

New York—PLANT—Industrial Co., c/o J. Russell Rogerson, Hotel Jamestown Bldg., Jamestown, plant. $50,000-$100,000.

N. Y., Buffalo—PLANT—Hygrade Food Products Corp., 50 Depot St., exten. plant. $40,000 including equip.

Ohio—PLANT—Youngstown Steel Car Corp., Hunter St., Niles, plant addn. $50,000.

O., Cleveland—FACTORY—Cleveland Tractor J. G. Heaslett, ch. engr., E. 193 St. and Euclid Ave., 1 story, 40x144 ft., brick factory. $40,000. George S. Rider Co., Terminal Tower, engr.

O., Cleveland—FOUNDRY—National Metal Abrasive Co., H. Marette, pres., 3560 Norton Ave., brick foundry addn. $40,000.

O., Cleveland — FACTORY — Commercial Forging Co., 3701 E. 91 St., 1 story, 55x100 ft., brick, steel factory addn. $40,000. J. M. Peters, 8805 Madison Ave., engr.

O., Cleveland—MACHINE SHOP—Efficient Tool & Die Co., F. Libuda, pres., 9307 Elizabeth Ave., plans by H. W. Maurer, 3126 Scarborough Rd., 1 story, 80x120 ft., brick machine shop. $40,000.

O., Cleveland—FACTORY—National Smelting Co., W. Wyles, pres., 6700 Grant Ave., factory exten. Over $200,000.

O., Cleveland — FACTORY, etc. — Reliable Steel Plate Co., E. Margulie, pres., 2330 E. 79 St., 1 story, 85x124 ft., brick factory, warehouse. $40,000.

O., Cleveland—FACTORY, etc.—Syndicate, c/o J. Demshar, engr., 874 E. 140 St., 1 story, 30x90 ft. factory, 2 story, 40x90 ft. office. $40,000.

O., Cleveland—FACTORY—Valley Mold & Iron Corp., W. H. Ramage, pres., Hubbard, steel plant. Wilbur Watson & Associates, 4614 Prospect Ave., engrs. CD 7/29.

O., Kent—FACTORY—C. L. Gluglar Co., Kent, 1 story factory addn. $40,000.

O., Lorain—FACTORY—White-Roth Machine Co., Lorain, factory addn. $40,000.

Ore., Klamath Falls—MILL—Pelican Bay Lumber Co., Klamath Falls, rebuilding planing mill. $40,000.

Ore., Vale—SUBSTATION—Malheur Cooperative Electric Assn., L. Heller, mgr., Vale, substation, extens. $50,000. $36,000 REA allot.

Pa., Bethlehem—PLANT—W. R. Goldsborough, Inc., 1325 Chelsea Ave., rebuilding silk-throwing plant, recently destroyed by fire. Over $60,000.

Pa., Irvine — PLANT — National Forge & Ordnance Co., Irvine, plant addn. Over $40,000.

Pa., Oil City—FACTORY—Continental Refining Co., A. B. Weingard, pres., Rouseville Rd., altering factory and new boiler house, 1 and 2 story, brick, steel bldgs., altering 3 story, 40x100 ft. filter plant, 2 story, 40x60 ft. office, 1 story, 50x100 ft. wax house addn. $40,000.

Pa., Punxsutawney—PLANT—Federal Laboratories, Inc., Punxsutawney, 1 story mfg. plant. Over $40,000.

Pa., Wilkes-Barre — PLANT—Wilkes-Barre Carriage Co., Horton and S. Franklin Sts., 1 story, 30x82 ft. plant addn. $40,000. d

S. D., Yankton—PLANT—Stuelnagel Produce & Storage Co., Yankton, egg drying plant and equipment. $45,000.

Wis., Ladysmith—PLANT—Menasha Woodenware Co., 430 River St., rebuilding 2 story, 100x200 ft., milling plant.

Wis., Madison—PLANT—Oscar Mayer & Co., 910 Mayer Ave., bids soon, packing plant addn. Henschein, Everds & Crombie, 59 E. Van Buren St., Chicago, Ill., engrs.

Alta., Grande Prairie—SAW MILL—Hales H. Ross, saw mill, etc., Bear Creek. $40,000.

B. C., New Westminster — PLANT — Pacific Veneer Co., Ltd., Sapperton, New Westminster, bids soon, frame plant exten. $52,000.

N. S., Waverly—PLANT—Waverly Prospecting Syndicate, Waverly, plant. $50,000.

Ont., Kincardine — PLANT — Andrew Malcolm Furniture Co., Kincardine, altering plant. $50,000.

Ont., Kitchener—PLANT—Dominion Rubber Co., 149 Strange St., plans by J. C. Klaehm, 49 King St., Kitchener, remodeling existing bldgs.

Ont., Toronto—PLANT—Continental Woolen Mills, Ltd., c/o H. M. Sherman, 1657 Bathurst St., plant.

Ont., Toronto—PLANT—Northern Diatomite Ltd., c/o S. A. Shoemaker, 302 Bay St., mining and refining plant. $50,000.

Ont., Toronto — PLANT — Ontario Pyrites Co., Ltd., c/o B. V. McCrimmon, 80 W. King St., mining and mfg. plant. $50,000.

Ont., Windsor—PLANT—Bryant Pattern & Mfg. Co., Ltd., 409 Sheppard St., 63x98 ft. plant addn.

Ont., Windsor—PLANT—Colonial Tool Co., Ltd., 1857 E. Sandwich St., plans by J. H. Thomson, 52 W. Chatham St., plant. $40,000.

Ont., Windsor—PLANT—Hiram Walker & Sons, H. C. Walker, mgr., Windsor, altering plant. $50,000-$75,000.

Que., Black Lake—MACHINE SHOP—Wartime Metals Corp., Ltd., plans by A. H. Swanson, Black Lake, machine shop, bldgs. $100,000.

Que., Ile-Aux-Coudres — FACTORY — Alex Tremblay Co., peat factory, etc. $40,000.

Que., Lachine — PLANT — Dominion Engineering Works, Ltd., 1 Ave., bids soon, plant addn. $100,000.

Que., Montreal—PLANT—Catelli Food Products, Ltd., 6890 E. Notre Dame St., plant addn. $40,000.

BIDS ASKED

Bids Asked August 12

Conn., Hamden (br. New Haven)—MACHINE SHOP—High Standard Mfg. Co., 1337 Dixwell Ave., 1 story, part bsmnt., 130x130 ft. rein.-con. machine shop unit. Plant No. 4, 1817 Dixwell Ave. Leo F. Caproni, 1221 Chapel St., New Haven, engr. CD 4/7—ENR 4/9.

R. I., Providence—FREIGHT TERMINAL—Southern New England Terminal, Okie St., (from selected bidders) 1 story, 135x150 ft. concrete, cinder block, steel freight terminal, Okie St. $50,000. Cresto Di Saia, 703 Gardner Bldg., archt.

CONTRACTS AWARDED

California — PLANT — Industrial Company, plant, to Swinerton & Walberg, 225 Bush St., San Francisco. Est. **$150,000.** K. Theill, 580 Market St., San Francisco, engr.

Calif., Alameda — ADMINISTRATION BUILDING—Bethlehem Steel Co., Webster St., 3 story, wood frame administration bldg., 2308 Webster St., to Newman, Carlsen & Franz, 50 Oak Grove St., San Francisco.

Calif., Emeryville (br. Oakland)—PLANT—Westinghouse Elec. & Mfg. Co., C. A. Dostal, Pacific Coast mgr., 5915 Green St., wood, glass service and repair facilities and box shop plant bldg., to Barrett & Hilp, 918 Harrison St., San Francisco. Est. over **$40,000.**

Conn., Bridgeport — FA... Thompson, Inc., archts., ... 2 story, brick, steel facto... Main Sts., for Bridgepor... Steinkraus, genl. mgr., ... Edward E. Bray Co., In... Est. **$250,000.** Bids 7/23. C...

Conn., New Haven—FA... Repeating Arms Co., 25 W... habilitating factory, to Je... 7 Howe St. Est. **$40,000.**

Conn., Stamford—FACT... 45 Garden St., brick facto... Vuono Constr. Co., 217 Bed... **$40,000.**

Massachusetts — PLANT ... pany, plant, to Edmund J... 515 Massachusetts Ave., Cam... Bids 7/15. $173,000.

Massachusetts — PAINT S... Company, paint shop, to F... 101 Milk St., Boston. **$61,945** 7/16.

Mass., Cambridge—PLANT—... Chemical Co., 52 Whittemore ... story, 55x60x95 ft. plant, alo... Metropolitan and Ringe Aves. ... 50 Dyer Ave., Milton.

Mich., Hillsdale — FACTO... Mfg. Co., 90x22 ft. factory, ... Lloyd Foulke & Hesserman ... **$65,000.** H. R. Graf, Jackso...

Minn., Rochester—PLANT—... Co., et. al., Rochester, general ... 3 story, 100x125 ft. brick, ... milk plant, to G. Schwartz & ... Cost incl. equip. **$250,000.** ... 1/22.

Minn., St. Paul—MACHINE SHOP—Amer... can Hoist & Derrick Co., 63 S. Robert St., general contract 52x185 ft. rein.-con., brick steel machine shop addn., to W. Hammerer Constr. Co., 1104 Pioneer Bldg., $50,000. C. H. Johnston, 715 Empire Bldg., archt.

Minn., St. Paul—PLANT—Certified Ice & Fuel Co., E. A. Faltesek, mgr., Fairfield Ave. and Bell St., general contract, rebuilding plant, to C. F. Sculley Equip. Co., 19 Guardian Bldg. Est. **$40,000.** CD 6/23—ENR 7/2.

Mo., Springfield—POWER PLANT—Springfield Gas & Electric Co., E. S. Ellever, mgr., 324 E. Walnut St., improv., exten. power plant fdn., to W. W. Johnson, Phelps Grove; boiler installation, to Stearns-Rogers Mfg. Co., 720 California St., Denver, Colo. Est. $228,000.

Ohio—PLANT—Industrial Company, 1 story brick, steel, concrete heat treating plant, ... Brown Constr. Co., 1900 Euclid Ave., Cleveland. Est. **$150,000.** Awarded 7/22. CD 7/... —ENR 7/23.

O., Cleveland—FACTORY—Cleveland Hardware & Forging Co., A. J. Sanford, pres. and mgr., 3262 E. 79 St., improv. factory, to A. O. Palmer, 3801 Glenwood Rd. Est **$40,000.** Awarded 7/25. A. E. Rowe, 1900 Euclid Ave., engr.

O., Cleveland—FACTORY, etc.—Sommer & Adams Co., L. A. Sommers, pres., 1801 Euclid Ave., 1 story, 90x240 ft., brick, steel factory, office, to Alger-Rau, Inc., 1240 Cedar Rd. Est. **$80,000.** Awarded 7/21. CD 7/15—ENR 7/23.

O., Euclid (br. Cleveland)—FACTORY, etc. —Euclid Road Machinery Co., E. H. Parkhurst, pres., 1361 Chardon Rd., Cleveland, 1 story, 30x100 ft. factory and office, to A. M. Higley Co., 2036 E. 22 St., Cleveland. Est. **$40,000.** Awarded 7/24. H. M. Morse Co., 1500 E. Superior Ave., Cleveland, engrs.

O., Cleveland — PLANT — Marquette Metal Products Co., H. Gleitz, pres., 1145 Gaywood Rd., 1 story, 75x75 ft., brick, wood heat treating plant, to Alger-Rau, Inc., 1240 Cedar Rd. Est. **$40,000.** C. B. Rowley & Associates, B. F. Keith Bldg., engrs. Awarded 7/27.

O., Cleveland—FACTORY—Realty Dpt. of Cleveland Trust Co., c/o H. Templeton, Euclid and E. 9 St., rebuilding factory, to Geo. A. Rutherford Co., 2725 Prospect Ave. Est. **$250,000.**

Pa., Erie—PLANT—Erie Forge & Steel Co., W. 16 St., 1 story, 24x46 ft. addn. also 1 story open hearth addn., to Upton & Lang, Commerce Bldg., Est. **$50,000.**

Pa., Erie—PLANT—Lord Mfg. Co., 12 and Green Garden Rd., 1 story, 60x300 ft. plant addn., to H. Platt Co., 922 Raspberry St. Est. **$50,000.** CD 8/6/41—ENR 8/14/41.

Wis., Milwaukee—FACTORY—Square D Co., 4041 N. Richards St., design and construction 1 story, 200x238 ft., steel, brick factory, concrete fdn., to Austin Co., 510 N. Dearborn St., Chicago, Ill. Est. **$125,000.**

Ont., Brantford — FACTORY — Cockshutt Plow Co., Mohawk St., 1 story, 60x500 ft. tile factory addn., to Pigott Constr. Co., Piggott Bldg., Hamilton. Est. $100,000. Awarded 7/23. E. A. Cross, 991 Bay St., Toronto, engr. CD 4/2—ENR 4/16.

Ont., Welland—PLANT—Atlas Steels Ltd., Main St. E., 1 story, 80x330 ft. brick, tile maintenance bldg., 2 story, 80x185 ft. brick, concrete storage bldg., and 2 story, 35x150 ft. brick personnel bldg., to Pigott Constr. Co., Piggott Bldg., Hamilton. Est. $200,000. Awarded 7/23.

Bids: August 27 (999)

Installing Lighting Fixtures and Illuminated Signs

CITY OF CHICAGO STATE STREET SUBWAY.

ORDER NO. S-3 OF CONTRACT E-5

Sealed bids, endorsed "PROPOSAL FOR INSTALLING LIGHTING FIXTURES AND ILLUMINATED SIGNS, ORDER NO. S-3 of CONTRACT E-5," will be received by the City of Chicago, in the County of Cook and State of Illinois, at the office of the Commissioner of Subways and Superhighways, Room 1940, 20 N. Wacker Drive, Chicago, Illinois, until 2 o'clock P.M., Central Standard Time (United States War Time), on Thursday, August 27, 1942, at which place and time all such proposals will be opened publicly and read aloud by a representative of the Commissioner of Subways and Superhighways.

The work for which such proposals are invited consists of installing lighting fixtures and illuminated signs furnished by the City, the furnishing and installing of conduits, wires, lighting fixtures, miscellaneous electrical work and the performing of other work appurtenant and collateral thereto, as specified in more detail in the Contract Documents and shown on the plans.

All bids must be made upon blank forms of proposal as furnished by the Commissioner of Subways and Superhighways and included in the Contract Documents, and shall be made in accordance with the provisions contained in said documents.

The Contract Documents, including Standard Specifications for Subway Construction, Contract Requirements and Contract Plans, are on file and available to bidders at the office of the Commissioner of Subways and Superhighways at Room 1940, 20 N. Wacker Drive, Chicago, Illinois. Copies of the Contract Documents may be obtained by depositing Twenty-five Dollars ($25.00) with the Commissioner of Subways and Superhighways, for each set of documents. The amount of the deposit for one set of documents will be refunded to each actual bidder who returns the said documents in good condition within ten (10) calendar days after the opening of bids. Fifteen Dollars ($15.00) will be refunded for each of all other sets of documents so returned.

Each proposal must be accompanied by cash or a certified check drawn on some responsible bank doing business in the city of Chicago, in the amount of Four Thousand Dollars ($4,000.00) payable to the order of the City of Chicago. Any proposal submitted without being accompanied by such cash or certified check may be considered informal and consequently may be rejected.

The City of Chicago reserves the right to reject any or all bids and to disregard and informalities in the bids and bidding.

No bid may be withdrawn, after the scheduled closing time for receipt of bids, for at least forty-five (45) calendar days.

CITY OR CHICAGO,
By PHILIP HARRINGTON,
Commissioner of Subways and Superhighways.

Chicago, Illinois, August 6, 1942.

Bids: August 19 (995)

Sewage Pumping Station

SEWAGE DISPOSAL
CONTRACT NO. 1
EDGEWOOD STATE HOSPITAL
NEAR DEER PARK, LONG ISLAND, NEW YORK

Sealed proposals for Sewage Pumping Station, Contract No. 1, Edgewood State Hospital, Near Deer Park, Long Island, New York, will be received at the office of the Department of Mental Hygiene, State Office Building, Albany, New York, until 2:30 P.M., Eastern War Time, Wednesday, August 19, 1942, when they will be publicly opened and read. Proposals shall be endorsed on the envelope, "Proposal for Sewage Pumping Station, Edgewood State Hospital, Near Deer Park, Long Island, New York," and addressed to the Department of Mental Hygiene, State Office Building, Albany, New York, and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable at sight to the State of New York, Division of the Treasury, or money, for not less than Five per cent (5%) of the amount of the proposal. The contractor to whom award is made will be required to furnish for the faithful performance of the work a surety bond in the sum of One Hundred per cent (100%) of the amount of the contract and a labor and material bond in the sum of One Hundred per cent (100%) of the amount of the contract. The right is reserved to reject any and all bids. Specifications and plans for this contract may be examined at the office of the Department of Mental Hygiene, State Office Building, Albany, N. Y.; at the office of the Chief Engineer, Department of Public Works, Division of Engineering, State Office Building, Albany, N. Y.; at the office of the District Engineer, Department of Public Works, Montauk Highway at Little East Neck Road, Babylon, N. Y., and at the office of the Department of Public Works, Division of Architecture, 80 Centre Street, New York, N. Y. Plans for this contract will be furnished by the CHIEF ENGINEER, DEPARTMENT OF PUBLIC WORKS, DIVISION OF ENGINEERING, STATE OFFICE BUILDING, ALBANY, NEW YORK, upon payment of $3.15. Refund in full will be made for the return in good condition, by the bidders, of one set of plans and specifications within 30 days of award of contract. The estimated cost of this project is $98,242.00.

DEPARTMENT OF MENTAL HYGIENE,
WM. J. TIFFANY,
COMMISSIONER

Dated Albany, N. Y., July 23, 1942.

Bids: August 19 (997)

Coal Mat at Power House

EDGEWOOD STATE HOSPITAL
NEAR DEER PARK, LONG ISLAND, NEW YORK

Sealed proposals for Coal Mat at Power House, Edgewood State Hospital, Near Deer Park, Long Island, New York, will be received at the office of the Department of Mental Hygiene, State Office Building, Albany, New York, until 2:30 P. M., Eastern War Time, Wednesday, August 19, 1942, when they will be publicly opened and read. Proposals shall be endorsed on the envelope, "Proposal for Coal Mat at Power House, Edgewood State Hospital, Near Deer Park, Long Island, New York," and addressed to the Department of Mental Hygiene, State Office Building, Albany, New York, and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable at sight to the State of New York, Division of the Treasury, or money, for not less than Five per cent (5%) of the amount of the proposal. The contractor to whom award is made will be required to furnish for the faithful performance of the work a surety bond in the sum of One Hundred per cent (100%) of the amount of the contract and a labor and material bond in the sum of One Hundred per cent (100%) of the amount of the contract. The right is reserved to reject any and all bids. Specifications and plans for this contract may be examined at the office of the Department of Mental Hygiene, State Office Building, Albany, N. Y.; at the office of the Chief Engineer, Department of Public Works, Division of Engineering, State Office Building, Albany, N. Y.; at the office of the District Engineer, Department of Public Works, Montauk Highway at Little East Neck Road, Babylon, N. Y., and at the office of the Department of Public Works, Division of Architecture, 80 Centre Street, New York, N. Y. Plans for this contract will be furnished by the CHIEF ENGINEER, DEPARTMENT OF PUBLIC WORKS, DIVISION OF ENGINEERING, STATE OFFICE BUILDING, ALBANY, NEW YORK, upon payment of $2.10. Refund in full will be made for the return in good condition, by the bidders, of one set of plans and specifications within 30 days of award of contract. The estimated cost of this project is $56,842.00.

DEPARTMENT OF MENTAL HYGIENE,
WM. J. TIFFANY,
COMMISSIONER

Dated Albany, N. Y., July 24, 1942.

(U. S. Government)

TENNESSEE VALLEY AUTHORITY, KNOXVILLE, TENNESSEE. Sealed bids in duplicate will be received until 10:00 A. M., Central War Time, August 14, 1942, and then publicly opened, for furnishing, fabricating, delivering, erecting and painting the *steel superstructure, and constructing the concrete floor slab, curbs, and deck portion of the abutments, of the Dandridge Bridge* across the French Broad River at Dandridge, Tennessee, Project No. 20-4081. The approximate quantities are listed below: Class A Concrete, 750 cu. yds.; Reinforcing Steel, 183,600 lbs.; Structural Steel, 2,150,000 lbs. Alternate bid schedules will enable bids to be based on the falsework being constructed by either the Contractor or the Authority. The work includes the furnishing of all labor, materials, tools, machinery and equipment for performing all the necessary work as called for on the drawings and in the specifications. Drawings, specifications, and bidding documents will be available July 30, 1942, from the office of the Director of Purchases, Old Post Office Building, Knoxville, Tennessee. There is no charge for specifications and bidding documents. A charge of Four Dollars ($4.00) will be made for a complete set of the drawings. Drawings purchased by protective bidders may be obtained from the Director of Purchases and must be paid for by certified checks or money orders made payable to the Tennessee Valley Authority, which payments will not be refunded. Drawings may be examined for bidding purposes on any days except Sundays, or holidays, either at the office of the Director of Purchases, Old Post Office Building, Knoxville, Tennessee, or at the office of the Head Highway Engineer, Arnstein Building, Knoxville, Tennessee. Requests for bidding documents must be completely identified by requisition and project number. (994)

INVITATION FOR BIDS BELLMAWR GRADE SCHOOL, CAMDEN COUNTY, NEW JERSEY. FEDERAL WORKS AGENCY, PROJECT N.J. 28-125F. Sealed Bids, in triplicate, subject to the conditions contained herein, will be received until 2:00 P.M., E.W.T., Wednesday, August 12, 1942, at the office of J. M. Gallagher, Regional Director, Federal Works Agency, Region No. 1, 2 Lafayette Street, New York City, and then publicly opened, for the furnishing all labor and materials and performing all work for the *construction of a Grade School Building at Bellmawr, Camden County, New Jersey.* Sealed proposals shall be submitted for Contract No. 1, General Construction including Heating, Ventilating, Plumbing and Electric Work. Specifications and Forms of Bid Bond, Performance Bond and Payment Bond may be examined at said office, and copies thereof obtained from: Joseph N. Hettel and Mayer and Whittlesey, Architects, 501 Cooper St., Camden, N. J. Where copies of plans are requested, a deposit of $15.00 will be required to insure their return. Any bidder, upon returning such set within ten (10) days after date of bid opening and in good condition, will be refunded his full payment, and any non-bidder upon so returning a set will be refunded $10.00. Guarantee will be required with each bid as follows: Bid Security as stipulated in the Instructions to Bidders Performance Bond—Fifty (50%) percent of the Contract Sum, Payment Bond—Fifty (50%) percent of the Contract Sum. Liquidated Damages for delay—$50.00 per day as provided in General Conditions. Partial Payments will be made according to Article 16 of the Contract. The Article on Patents will be made part of the Contract. Bids must be submitted upon the Standard Government Form of Bid and the successful bidder will be required to execute the Standard Government Form of Contract for Construction. The right is reserved, as the interest of the Government may require, to reject any and all bids, to waive any informality in bids received, and to accept or reject any items of any bid, unless such bid is qualified by specific limitation. J. M. Gallagher, Regional Director Federal Works Agency. July 29, 1942. (996)

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WANTED — $3,000,000 Naval Air Base in Florida requires services of a hustler who has had experience on government contracts as project manager or general superintendent. Man with technical background preferred. P-911, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

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POSITIONS WANTED

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STRUCTURAL ENGINEER experienced in Concrete, Structural Steel and Wood structures with Bar Company experience. Commercial, Industrial and Steel Mill Experience. PW-921, Engineering News-Record, 520 N. Michigan Ave., Chicago, Ill.

CONSTRUCTION SUPERINTENDENT or Assistant Superintendent desires connection with building contractor. Engineering Graduate with 15 years building construction for self. PW-922, Engineering News-Record, 520 N. Michigan Ave., Chicago, Ill.

CONSTRUCTION ENGINEER with Assistant specializing in piers, wharves and floating naval structures. Desires connection with progressive firm, who will adopt new methods to meet present shortage of construction materials. Available on short notice. PW-923, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

CONSTRUCTION ENGINEER, 20 years on Industrial, Commercial, Public and General Building. C. J. Murray, Jellico, Tenn.

SURVEYOR, 15 years experience, 2 in South America, desires position foreign country. Age 35. Available about August 15. PW-924, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

GENERAL CONSTRUCTION SUPERINTENDENT, with 35 years experience all types construction. Have assisted in design and construction of several ammunition plants. Just completed twenty million dollar plant, including water, sewer, R.R. highways, plumbing and heating, electric, building etc. Have a complete and competent organization of assistant superintendents, engineers, foremen etc. Can furnish highest references. PW-908, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

MECHANICAL & ELECTRICAL ENGINEER —Technical Graduate M. E. & E. E., 30 years experience as Designer, Estimator, Tester and Operator of Technical and Electrical Equipment for Large Industries and Public Projects, especially Power Houses. Available for Defense Projects on short notice. Salary—Metropolitan Area—$8,500.00 per year. Elsewhere—$10,000.00 per year. PW-926, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

CIVIL ENGINEER, eighteen years design, construction, specifications, estimates steel, concrete, timber structures, buildings, heavy foundations, harbor works. PW-870, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

CONSTRUCTION ENGINEER: Age 33, Sewers, water, domestic gas, process piping, welded pipe-lines, roads, disposal, cantonment buildings. Can Supervise, Estimate, Design; competent with contracts and writing of Specifications. PW-910, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

SQUAD OF ENGINEERS, capable of handling Design and Drafting on power plants and chemical or oil refineries. Wish to handle complete project as a group. PW-929, Engineering News-Record, 68 Post Street, San Francisco, Cal.

PART TIME WORK

CIVIL ENGINEER, Expert General Construction Estimator. Available Part Time Work. PW-914, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

WORK WANTED

CONSTRUCTION LABORERS. Logical. Experienced. Looking for any job anywhere. High references. Address 646 Hegney Place, Bronx, New York, N. Y.

FIELD PARTY, Completely equipped, in charge of Licensed Engineer, available August 15th. PW-927, Engineering News-Record, 330 W. 42nd St., New York, N. Y.

OFFICIAL PROPOSALS

Bids: August 12 (993)

Water Main & Sewer Construction

WASHINGTON SUBURBAN SANITARY COMMISSION
HYATTSVILLE, MARYLAND

Sealed proposals for constructing approximately 4400 feet of 4-inch to 8-inch cast iron water mains and 3500 feet of 8-inch to 15-inch vitrified pipe sewers, on Contract No. 158-W&S will be received at the office of the Washington Suburban Sanitary Commission, Hamilton Street, Hyattsville, Maryland, until 1:00 P.M., Eastern War Time, Wednesday, August 12, 1942, at [illegible] which time they will be publicly [illegible]

Plans and specifications [illegible] from Harry R. Hall, Chief [illegible] Commission, Hyattsville, [illegible] deposit of $5.00, which [illegible] turned to bidders, or to [illegible] plans and specifications in [illegible]

Perry [illegible]
J. D[illegible]
Fran[illegible]

OFFICIAL PROPOSALS

[illegible] day, August 12, 1942, at [illegible] time they will be publicly [illegible]

Plans and specifications [illegible] from Harry R. Hall, Chief [illegible] Commission, Hyattsville, [illegible] deposit of $5.00, which de[illegible] turned to bidders, or to [illegible] plans and specifications in [illegible]

Perry [illegible]
J. D[illegible]
Fran[illegible]

Bids: August 17 (998)

Construction of Access Road to New York

STATE OF NEW JERSEY
STATE HIGHWAY DEPARTMENT
TRENTON

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commissioner for:

ACCESS ROAD TO NEW WORK SHIPBUILDING CORPORATION

Construction of Access Road to New York Shipbuilding Corporation, Fairview Street and Morgan Boulevard Extensions from 9th Street to State Highway Route No. 42, City of Camden, Camden County, Federal Project DA-NI-4, length 0.785 miles. Some of the principal items of construction are:

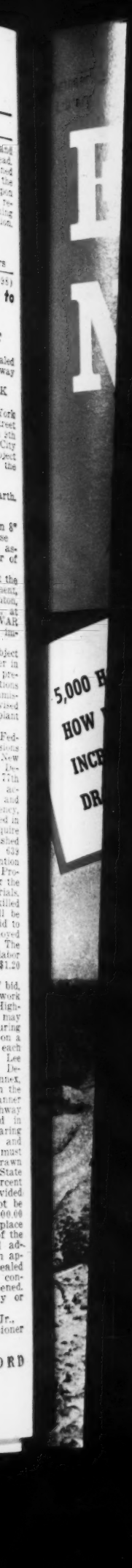
Estimated:
- 13,642 cu. yds. roadway excavation-earth
- 21,273 cu. yds. wet excavation
- 36,972 cu. yds. borrow excavation
- 12,000 sq. yds. pavement type "T" on 8" plain conc. base course

Preference Rating A-1-E has been assigned to this project by the Director of Priorities.

Bids for the above will be received at the office of the State Highway Department, Room 102, State House Annex, Trenton, N. J., on Monday, August 17, 1942, at twelve o'clock Noon, EASTERN WAR TIME, and will be opened and read immediately thereafter.

The receipt and opening of bids is subject to the proper qualification of the bidder in accordance with the provisions of the prequalification law and the regulations adopted by the State Highway Commissioner. Bidders must submit a revised financial statement and statement of plant and equipment with their bid.

NOTE: The proposed project is a "Federal Project" authorized by the provisions of Title 27 of the Revised Statutes of New Jersey and supplements, and by the Defense Highway Act of 1941, P.L. 295, 77th Congress, and is to be performed in accordance with the special provisions and requirements of the Federal Works Agency, Public Roads Administration, as outlined in the specifications, which provisions require that labor be employed from lists furnished by the State Employment Service, 638 Cooper Street, Camden, N. J. The attention of bidders is directed to the Special Provisions covering subletting or assigning the contract and the use of Domestic Materials. The minimum wage paid to all unskilled labor employed on this contract shall be 50c per hour. The minimum wage paid to all intermediate grade of labor employed on this contract shall be 65c per hour. The minimum wage paid to all skilled labor employed on this contract shall be $1.20 per hour.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, N. J., and may be inspected by prospective bidders during office hours. Plans will be furnished on a deposit of Ten Dollars ($10.00) for each set of plans upon application to A. Lee Grover, Chief Clerk, State Highway Department, Room 102, State House Annex, Trenton, N. J. Bids must be made on the standard proposal forms in the manner designated in the standard State Highway specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten percent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500. nor more than $20,000.00 and must be delivered at the above place on or before the hour named. Copies of the standard proposal forms and special addressed envelopes will be furnished on application. Bids not enclosed in sealed special addressed envelopes will be considered informal and will not be opened. The right is reserved to reject any or all bids.

Signed: Spencer Miller, Jr.,
State Highway Commissioner